Trying 3106016892...Open

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PASSWORD:
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NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2	Dec 17	The CA Lexicon available in the CAPLUS and CA files
NEWS 3	Feb 06	Engineering Information Encompass files have new names
NEWS 4	Feb 16	TOXLINE no longer being updated
NEWS 5	Apr 23	Search Derwent WPINDEX by chemical structure
NEWS 6	Apr 23	PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA
NEWS 7	May 07	DGENE Reload
NEWS 8	Jun 20	Published patent applications (A1) are now in USPATFULL
NEWS 9	JUL 13	New SDI alert frequency now available in Derwent's DWPI and DPCI
NEWS 10	Aug 23	In-process records and more frequent updates now in MEDLINE
NEWS 11	Aug 23	PAGE IMAGES FOR 1947-1966 RECORDS IN CAPLUS AND CA
NEWS 12	Aug 23	Adis Newsletters (ADISNEWS) now available on STN
NEWS 13	Sep 17	IMSworld Pharmaceutical Company Directory name change to PHARMASEARCH
NEWS 14	Oct 09	Korean abstracts now included in Derwent World Patents Index
NEWS 15	Oct 09	Number of Derwent World Patents Index updates increased
NEWS 16	Oct 15	Calculated properties now in the REGISTRY/ZREGISTRY File
NEWS 17	Oct 22	Over 1 million reactions added to CASREACT
NEWS 18	Oct 22	DGENE GETSIM has been improved
NEWS 19	Oct 29	AAASD no longer available
NEWS 20	Nov 19	New Search Capabilities USPATFULL and USPAT2
NEWS 21	Nov 19	TOXCENTER(SM) - new toxicology file now available on STN
NEWS 22	Nov 29	COPPERLIT now available on STN
NEWS 23	Nov 29	DWPI revisions to NTIS and US Provisional Numbers
NEWS 24	Nov 30	Files VETU and VETB to have open access
NEWS 25	Dec 10	WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002
NEWS 26	Dec 10	DGENE BLAST Homology Search
NEWS 27	Dec 17	WELDASEARCH now available on STN
NEWS 28	Dec 17	STANDARDS now available on STN
NEWS 29	Dec 17	New fields for DPCI
NEWS 30	Dec 19	CAS Roles modified
NEWS 31	Dec 19	1907-1946 data and page images added to CA and CAplus

NEWS EXPRESS	August 15 CURRENT WINDOWS VERSION IS V6.0c, CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP), AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 10:39:29 ON 11 JAN 2002

=> file registry
FILE 'REGISTRY' ENTERED AT 10:39:37 ON 11 JAN 2002
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STRUCTURE FILE UPDATES: 9 JAN 2002 HIGHEST RN 381664-84-2
DICTIONARY FILE UPDATES: 9 JAN 2002 HIGHEST RN 381664-84-2

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading dithio.str

L1 STRUCTURE UPLOADED

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SAMPLE SEARCH INITIATED 10:40:05 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 327 TO ITERATE

100.0% PROCESSED 327 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

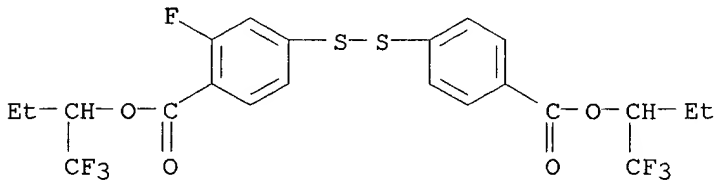
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 5456 TO 7624
PROJECTED ANSWERS: 4088 TO 5992

L2 50 SEA SSS SAM L1

=> d l2

L2 ANSWER 1 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 377778-32-0 REGISTRY

CN Benzoic acid,
2-fluoro-4-[[4-[[1-(trifluoromethyl)propoxy]carbonyl]phenyl]
dithio]-, 1-(trifluoromethyl)propyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C22 H19 F7 O4 S2
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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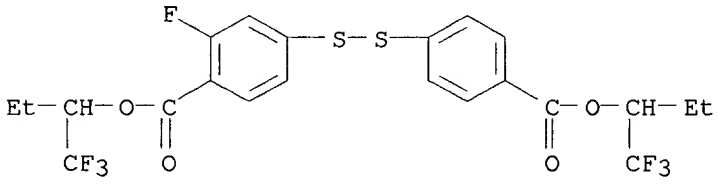
L2 ANSWER 1 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 377778-32-0 REGISTRY
CN Benzoic acid,
2-fluoro-4-[[4-[[1-(trifluoromethyl)propoxy]carbonyl]phenyl]
dithio]-, 1-(trifluoromethyl)propyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C22 H19 F7 O4 S2
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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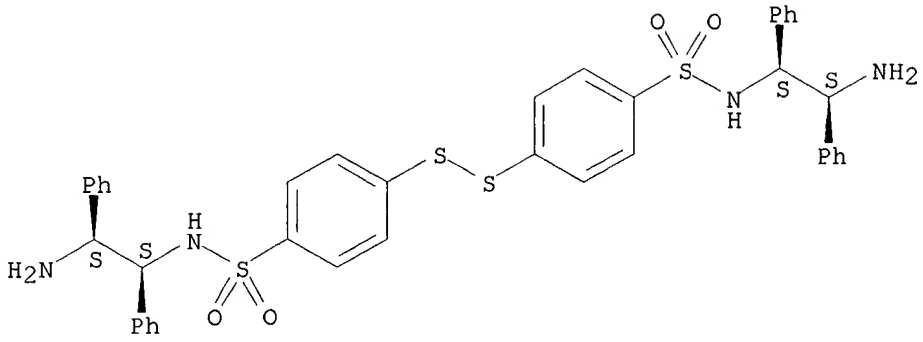
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 2 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 357611-98-4 REGISTRY
CN Benzenesulfonamide, 4,4'-dithiobis[N-[(1S,2S)-2-amino-1,2-diphenylethyl]-
(9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C40 H38 N4 O4 S4
SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

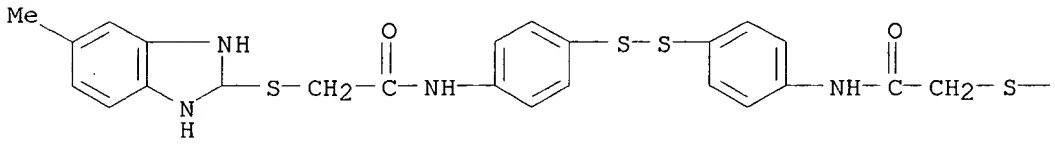


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 3 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 348141-37-7 REGISTRY
CN Acetamide, N,N'-(dithiodi-4,1-phenylene)bis[2-[(2,3-dihydro-5-methyl-1H-benzimidazol-2-yl)thio]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C32 H32 N6 O2 S4
SR Chemical Library
LC STN Files: CHEMCATS

PAGE 1-A



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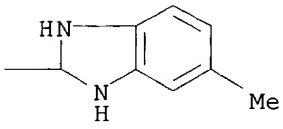
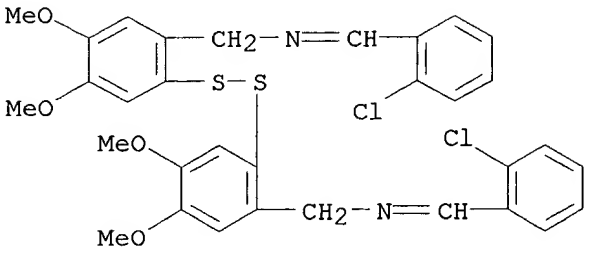


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

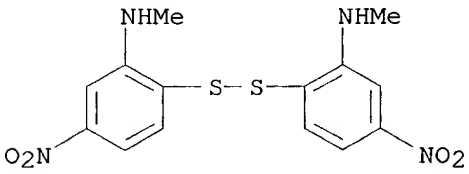
L2 ANSWER 4 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 344767-88-0 REGISTRY
CN Benzenemethanamine, 2,2'-dithiobis[N-[(2-chlorophenyl)methylene]-4,5-

dimethoxy- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C32 H30 Cl2 N2 O4 S2
SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

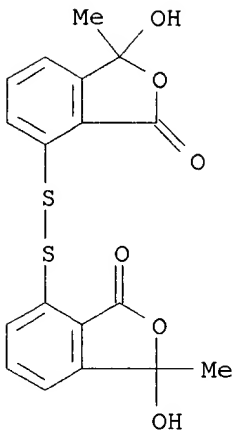
L2 ANSWER 5 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 341551-73-3 REGISTRY
CN Benzenamine, 2,2'-dithiobis[N-methyl-5-nitro- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H14 N4 O4 S2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, TOXLIT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 6 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 335279-65-7 REGISTRY
CN 1(3H)-Isobenzofuranone, 7,7'-dithiobis[3-hydroxy-3-methyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H14 O6 S2
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

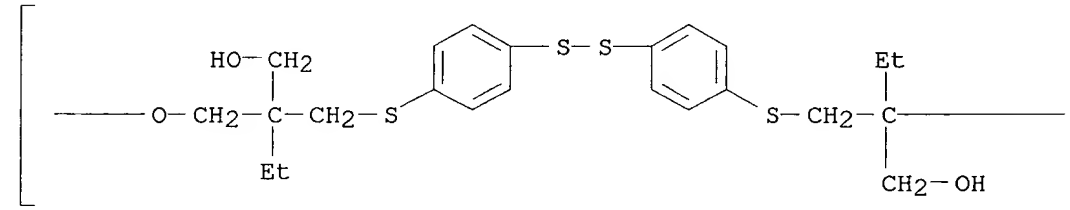


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 7 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 329364-11-6 REGISTRY
CN Poly[oxy[2-ethyl-2-(hydroxymethyl)-1,3-propanediyl]thio-1,4-phenylenedithio-1,4-phenylenethio[2-ethyl-2-(hydroxymethyl)-1,3-propanediyl]] (9CI) (CA INDEX NAME)
MF (C24 H32 O3 S4)n
CI PMS
PCT Polyether, Polysulfide, Polythioether
SR CA
LC STN Files: CA, CAPLUS

PAGE 1-A



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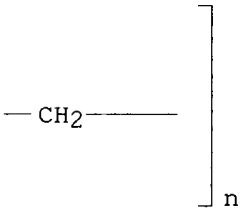
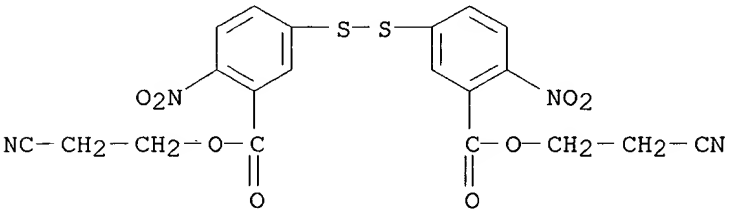


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

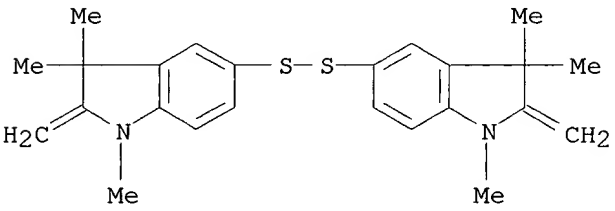
L2 ANSWER 8 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 313056-27-8 REGISTRY
CN Benzoic acid, 3,3'-dithiobis[6-nitro-, bis(2-cyanoethyl) ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H14 N4 O8 S2
SR CA
LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

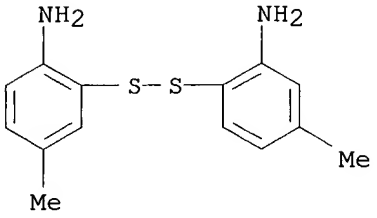
L2 ANSWER 9 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 306735-90-0 REGISTRY
CN 1H-Indole, 5,5'-dithiobis[2,3-dihydro-1,3,3-trimethyl-2-methylene- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C24 H28 N2 S2
SR Chemical Library
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

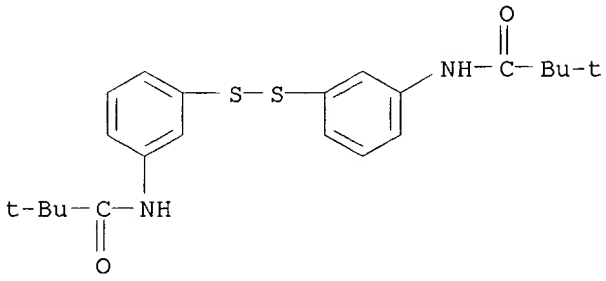
L2 ANSWER 10 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 304660-58-0 REGISTRY
CN Benzenamine, 2-[(2-amino-4-methylphenyl)dithio]-4-methyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD

MF C14 H16 N2 S2
SR Chemical Library
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 ANSWER 11 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 303054-96-8 REGISTRY
CN Propanamide, N,N'-(dithiodi-3,1-phenylene)bis[2,2-dimethyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C22 H28 N2 O2 S2
SR CA
LC STN Files: CA, CAPLUS

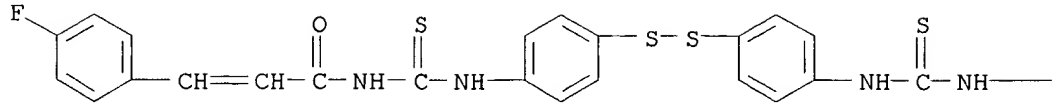


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 12 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 294651-35-7 REGISTRY
CN 2-Propenamide, N,N'-[dithiobis(4,1-phenyleneiminocarbonothioyl)]bis[3-(4-fluorophenyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C32 H24 F2 N4 O2 S4
SR Chemical Library
LC STN Files: CHEMCATS

PAGE 1-A



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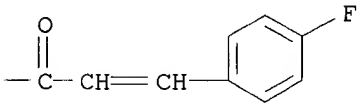
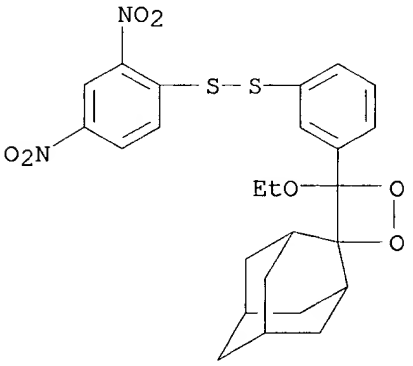


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 ANSWER 13 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 287171-81-7 REGISTRY
CN Spiro[1,2-dioxetane-3,2'-tricyclo[3.3.1.13,7]decane], 4-[3-[(2,4-dinitrophenyl)dithio]phenyl]-4-ethoxy- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C25 H26 N2 O7 S2
SR CA
LC STN Files: CA, CAPLUS, CASREACT

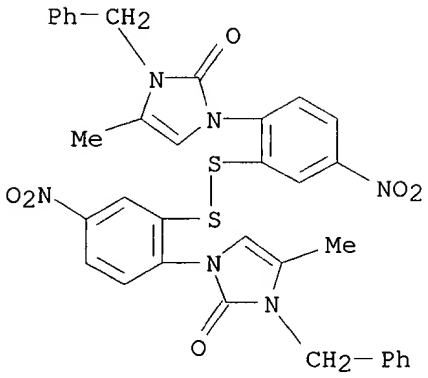


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 14 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 279688-00-5 REGISTRY
CN 2H-Imidazol-2-one, 1,1'-[dithiobis(4-nitro-2,1-phenylene)]bis[1,3-dihydro-4-methyl-3-(phenylmethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C34 H28 N6 O6 S2
SR CA

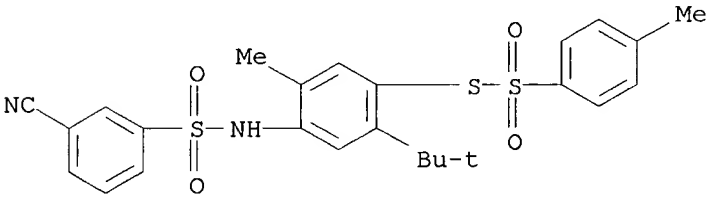
LC STN Files: CA, CAPLUS, CASREACT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 15 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 263843-13-6 REGISTRY
CN Benzenesulfonothioic acid, 4-methyl-, S-[4-[[(3-cyanophenyl)sulfonyl]amino]-2-(1,1-dimethylethyl)-5-methylphenyl] ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C25 H26 N2 O4 S3
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

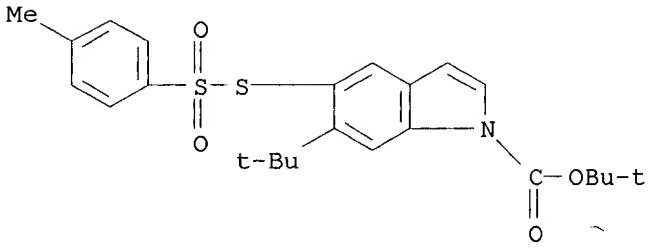


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 16 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 261709-56-2 REGISTRY
CN 1H-Indole-1-carboxylic acid, 6-(1,1-dimethylethyl)-5-[[(4-methylphenyl)sulfonyl]thio]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C24 H29 N O4 S2
SR CA

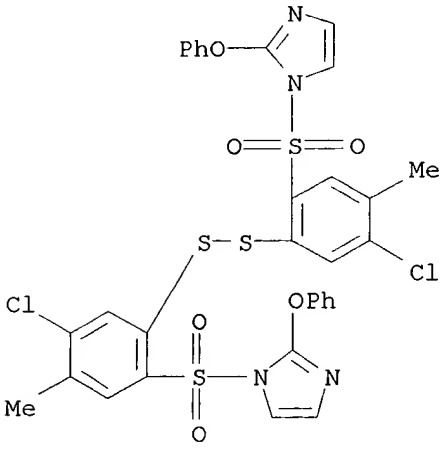
LC STN Files: CA, CAPLUS, TOXCENTER



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 17 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 256513-63-0 REGISTRY
CN 1H-Imidazole, 1,1'-[dithiobis[(4-chloro-5-methyl-2,1-phenylene)sulfonyl]]bis[2-phenoxy- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C32 H24 Cl2 N4 O6 S4
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

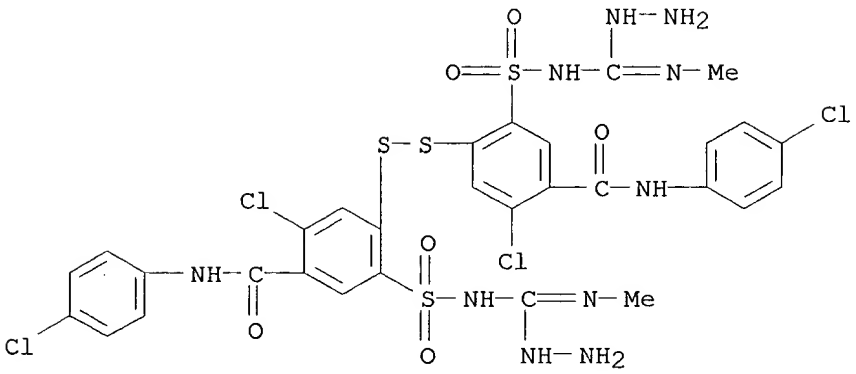


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

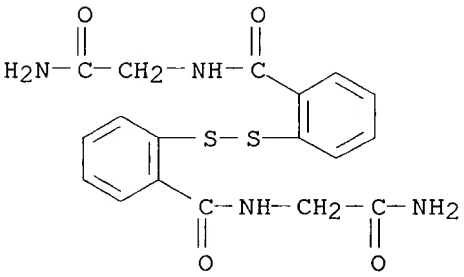
L2 ANSWER 18 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 256513-21-0 REGISTRY
CN Benzamide, 4,4'-dithiobis[2-chloro-N-(4-chlorophenyl)-5-[[[hydrazino(methylamino)methylene]amino]sulfonyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD
MF C30 H28 Cl4 N10 O6 S4
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 19 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 252898-12-7 REGISTRY
CN Benzamide, 2,2'-dithiobis[N-(2-amino-2-oxoethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H18 N4 O4 S2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

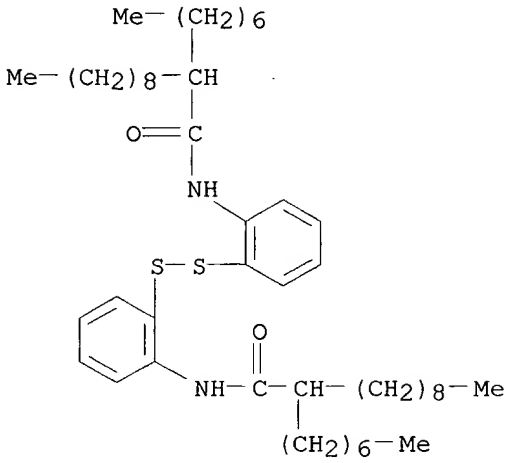


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 20 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 244779-62-2 REGISTRY
CN Undecanamide, N,N'-(dithiodi-2,1-phenylene)bis[2-heptyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C48 H80 N2 O2 S2
SR CA

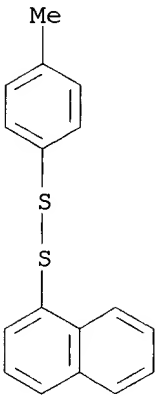
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

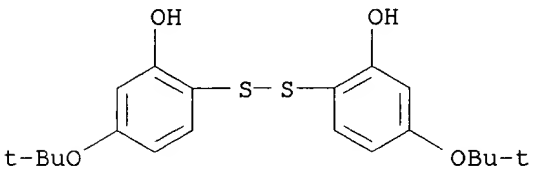
L2 ANSWER 21 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 243124-46-1 REGISTRY
CN Disulfide, 4-methylphenyl 1-naphthalenyl (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H14 S2
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 22 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 225663-68-3 REGISTRY
CN Phenol, 2,2'-dithiobis[5-(1,1-dimethylethoxy)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H26 O4 S2
SR CA
LC STN Files: CA, CAPLUS

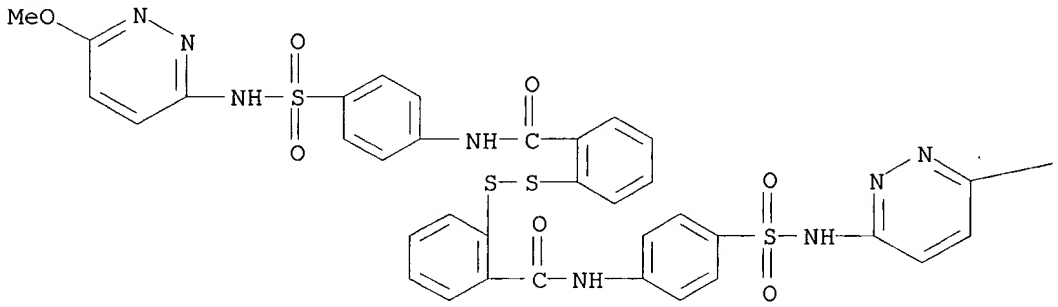


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 23 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 221119-65-9 REGISTRY
CN Benzamide, 2,2'-dithiobis[N-[4-[[(6-methoxy-3-pyridazinyl)amino]sulfonyl]phenyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C36 H30 N8 O8 S4
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, TOXLIT, USPATFULL

PAGE 1-A



PAGE 1-B

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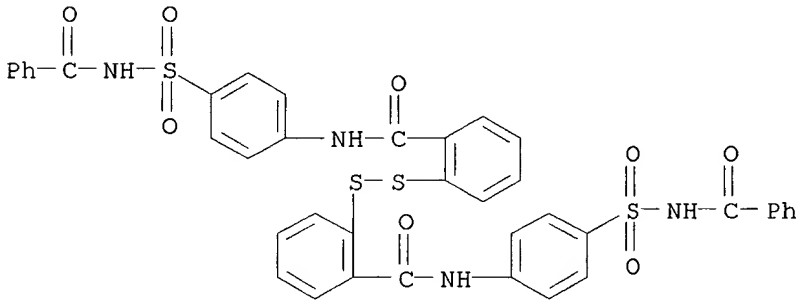
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 24 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 221119-57-9 REGISTRY
CN Benzamide, 2,2'-dithiobis[N-[4-[(benzoylamino)sulfonyl]phenyl]- (9CI) (CA
INDEX NAME)
FS 3D CONCORD
MF C40 H30 N4 O8 S4
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, TOXLIT, USPATFULL



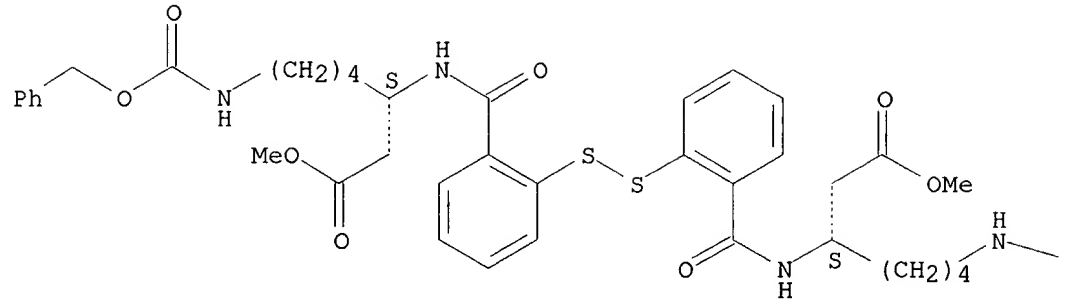
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

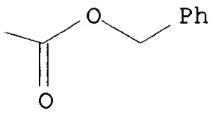
L2 ANSWER 25 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 219309-94-1 REGISTRY
CN Heptanoic acid, 3,3'-[dithiobis(2,1-phenylenecarbonylimino)]bis[7-
[[(phenylmethoxy)carbonyl]amino]-, dimethyl ester, (3S,3'S)- (9CI) (CA
INDEX NAME)
FS STEREOSEARCH
MF C46 H54 N4 O10 S2
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

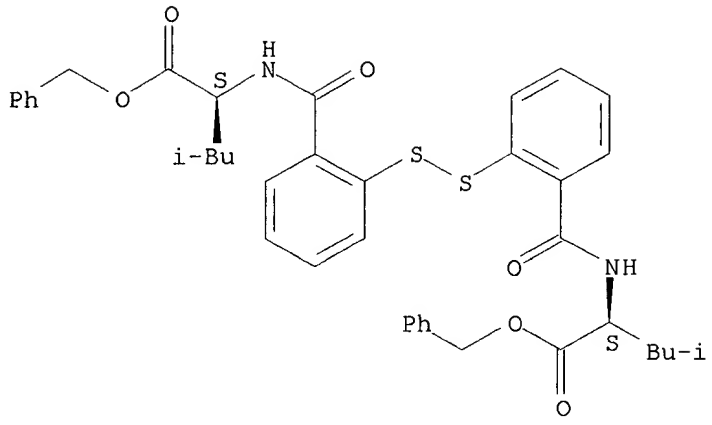


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 26 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 219309-71-4 REGISTRY
CN L-Leucine, N,N'-[dithiobis(2,1-phenylenecarbonyl)]bis-, bis(phenylmethyl) ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C40 H44 N2 O6 S2
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

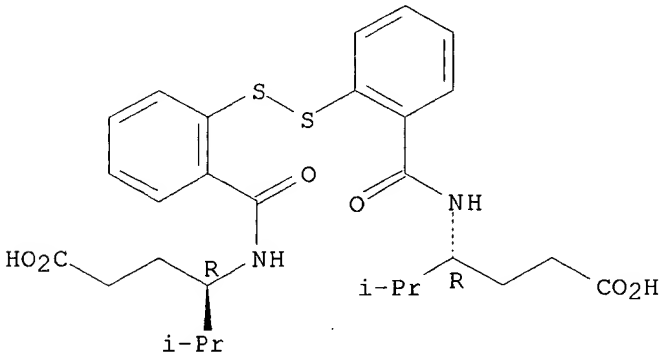


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 27 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 219309-56-5 REGISTRY
CN Hexanoic acid, 4,4'-[dithiobis(2,1-phenylenecarbonylimino)]bis[5-methyl-, (4R,4'R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C28 H36 N2 O6 S2
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

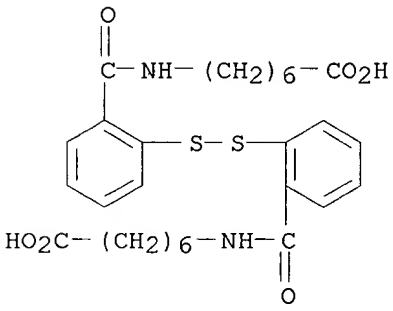


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 28 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 219309-41-8 REGISTRY
CN Heptanoic acid, 7,7'-[dithiobis(2,1-phenylenecarbonylimino)]bis- (9CI)

(CA INDEX NAME)
FS 3D CONCORD
MF C28 H36 N2 O6 S2
SR CA
LC STN Files: CA, CAPLUS

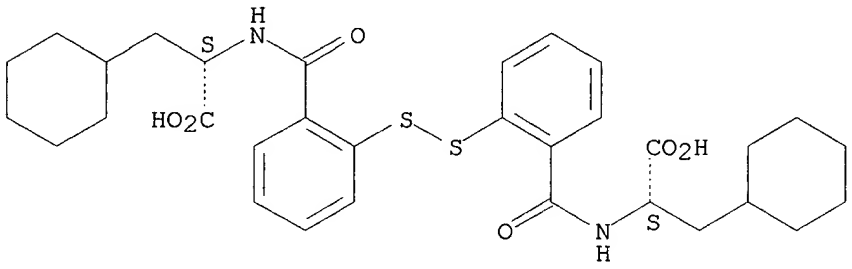


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 29 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 219309-24-7 REGISTRY
CN Cyclohexanepropanoic acid, .alpha.,.alpha.'-[dithiobis(2,1-phenylenecarbonylimino)]bis-, (.alpha.S,.alpha.'S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C32 H40 N2 O6 S2
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

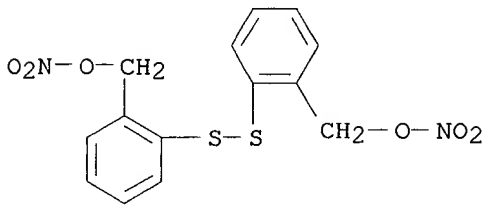


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 30 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 213982-40-2 REGISTRY
CN Benzenemethanol, 2,2'-dithiobis-, dinitrate (9CI) (CA INDEX NAME)

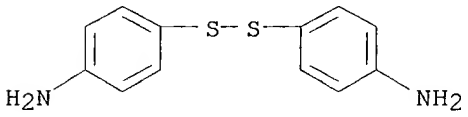
FS 3D CONCORD
MF C14 H12 N2 O6 S2
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

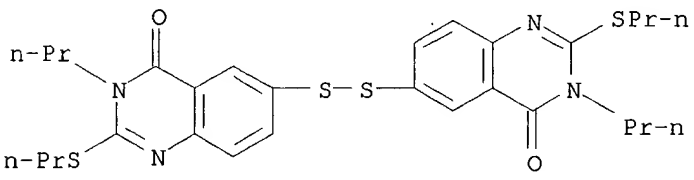
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 31 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 213126-89-7 REGISTRY
CN Benzenamine, 4,4'-dithiobis-, radical ion(1+) (9CI) (CA INDEX NAME)
MF C12 H12 N2 S2
CI RIS
SR CA
LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 32 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 209604-69-3 REGISTRY
CN 4(3H)-Quinazolinone, 6,6'-dithiobis[3-propyl-2-(propylthio)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C28 H34 N4 O2 S4
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 33 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 208645-95-8 REGISTRY
CN Poly[oxy[trifluoro(trifluoromethyl)-1,2-ethanediyl]], .alpha.-[2-[4-[[4-(2,2-difluoro-2-hydroxyethyl)phenyl]dithio]phenyl]-1,1-difluoroethyl]-.omega.-(trifluoromethoxy)-, ether with .alpha.-hydro-.omega.-hydroxypoly[oxy[trifluoro(trifluoromethyl)-1,2-ethanediyl]] (2:1) (9CI) (CA INDEX NAME)
MF (C3 F6 O)n (C3 F6 O)n (C3 F6 O)n C34 H24 F14 O3 S4
CI IDS, PMS
PCT Polyether
SR CA
LC STN Files: CA, CAPLUS

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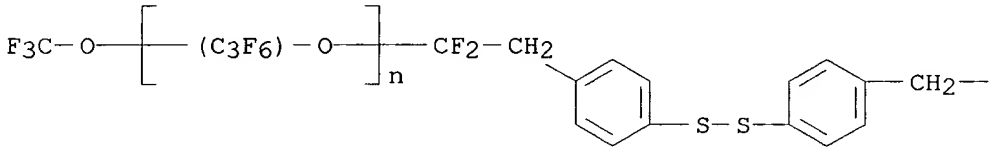

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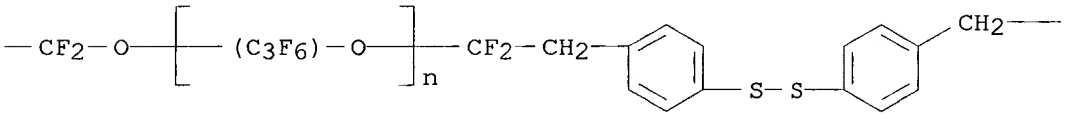
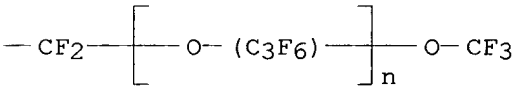


PAGE 1-C

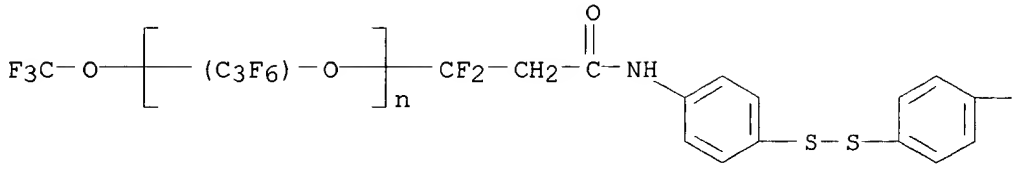


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

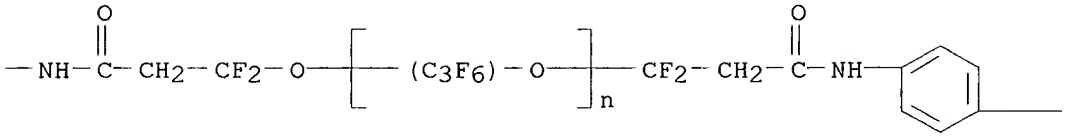
L2 ANSWER 34 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 208645-94-7 REGISTRY
CN Poly[oxy[trifluoro(trifluoromethyl)-1,2-ethanediyl]], .alpha.-[3-[[4-[[4-[(3,3-difluoro-3-hydroxy-1-oxopropyl)amino]phenyl]dithio]phenyl]amino]-1,1-difluoro-3-oxopropyl]-.omega.-(trifluoromethoxy)-, ether with .alpha.-hydro-.omega.-hydroxypoly[oxy[trifluoro(trifluoromethyl)-1,2-ethanediyl]] (2:1) (9CI) (CA INDEX NAME)
MF (C3 F6 O)n (C3 F6 O)n (C3 F6 O)n C38 H28 F14 N4 O7 S4
CI IDS, PMS
PCT Polyether

SR CA
LC STN Files: CA, CAPLUS

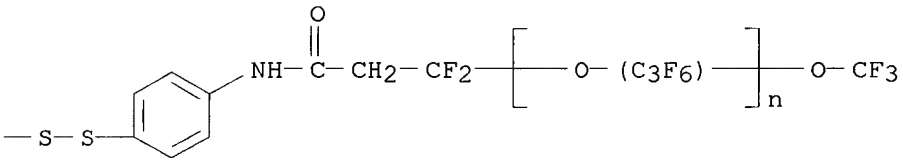
PAGE 1-A



PAGE 1-B



PAGE 1-C



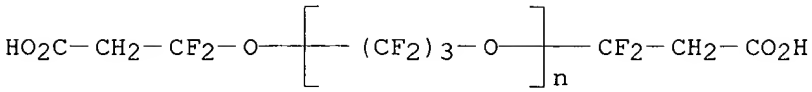
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 35 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 208536-52-1 REGISTRY
CN Benzenamine, 4,4'-dithiobis-, polymer with .alpha.-(2-carboxy-1,1-difluoroethyl)-.omega.-(2-carboxy-1,1-difluoroethoxy)poly[oxy(1,1,2,2,3,3-hexafluoro-1,3-propanediyl)] (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Poly[oxy(1,1,2,2,3,3-hexafluoro-1,3-propanediyl)], .alpha.-(2-carboxy-1,1-difluoroethyl)-.omega.-(2-carboxy-1,1-difluoroethoxy)-, polymer with 4,4'-dithiobis[benzenamine] (9CI)
MF (C12 H12 N2 S2 . (C3 F6 O)n C6 H6 F4 O5)x
CI PMS
PCT Polyamide, Polyamide formed, Polyester, Polyester formed, Polyether, Polysulfide
SR CA
LC STN Files: CA, CAPLUS

CM 1

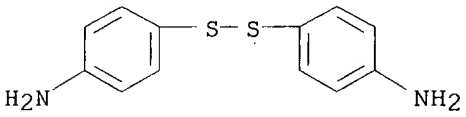
CRN 208594-63-2

CMF (C3 F6 O)n C6 H6 F4 O5
CCI PMS



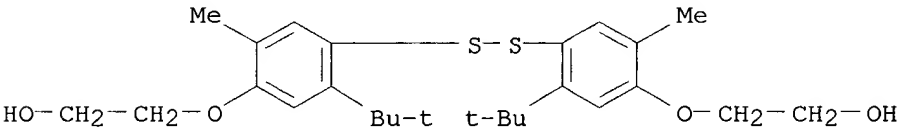
CM 2

CRN 722-27-0
CMF C12 H12 N2 S2



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 36 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 207737-12-0 REGISTRY
CN Ethanol, 2,2'-[dithiobis[[5-(1,1-dimethylethyl)-2-methyl-4,1-phenylene]oxy]]bis- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C26 H38 O4 S2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



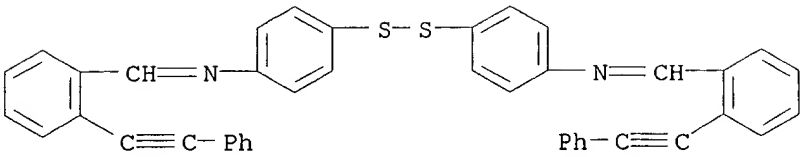
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 37 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 204018-02-0 REGISTRY
CN Benzenamine, 4,4'-dithiobis[N-[[2-(phenylethynyl)phenyl]methylene]-, homopolymer (9CI) (CA INDEX NAME)
MF (C42 H28 N2 S2)x
CI PMS
PCT Polyacetylene
SR CA
LC STN Files: CA, CAPLUS

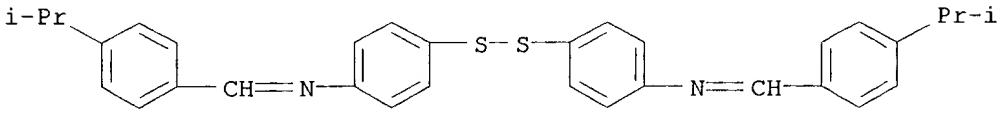
CM 1

CRN 204017-92-5
CMF C42 H28 N2 S2



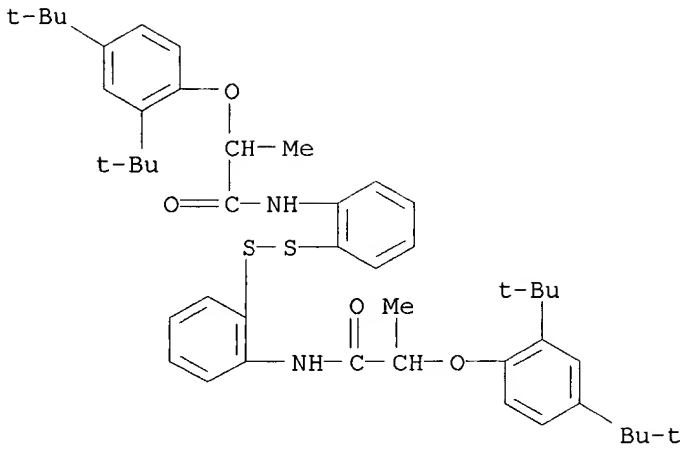
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 38 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 198899-35-3 REGISTRY
CN Benzenamine, 4,4'-dithiobis[N-[[4-(1-methylethyl)phenyl]methylene]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C32 H32 N2 S2
SR CAS Registry Services
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

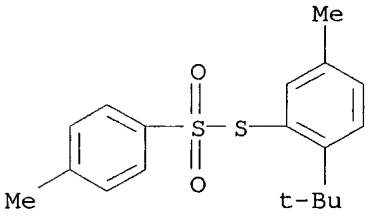
L2 ANSWER 39 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 198696-53-6 REGISTRY
CN Propanamide, N,N'-(dithiodi-2,1-phenylene)bis[2-[2,4-bis(1,1-dimethylethyl)phenoxy]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C46 H60 N2 O4 S2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

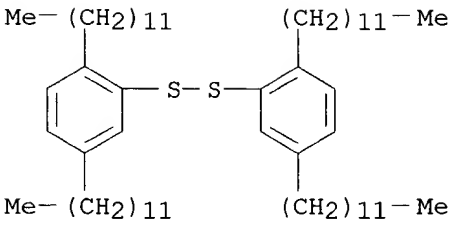
L2 ANSWER 40 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 198123-72-7 REGISTRY
CN Benzenesulfonothioic acid, 4-methyl-, S-[2-(1,1-dimethylethyl)-5-methylphenyl] ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H22 O2 S2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, TOXLIT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

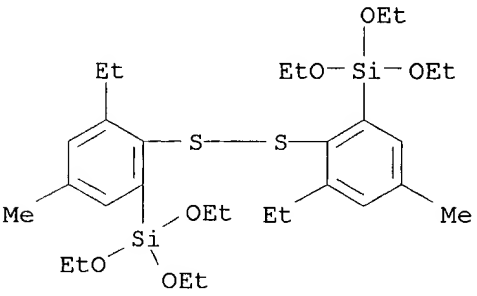
L2 ANSWER 41 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 195822-63-0 REGISTRY
CN Disulfide, bis(2,5-didodecylphenyl) (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C60 H106 S2
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

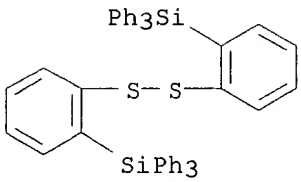
L2 ANSWER 42 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 194299-62-2 REGISTRY
CN Silane, [dithiobis(3-ethyl-5-methyl-2,1-phenylene)]bis[triethoxy- (9CI) (CA INDEX NAME)
MF C30 H50 O6 S2 Si2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

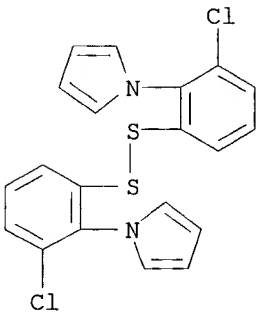
L2 ANSWER 43 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 189943-50-8 REGISTRY
CN Silane, (dithiodi-2,1-phenylene)bis[triphenyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C48 H38 S2 Si2
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

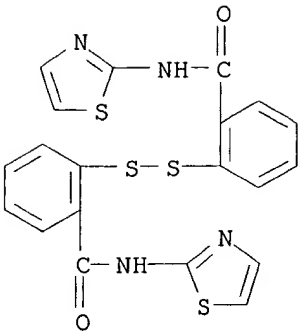
L2 ANSWER 44 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 189883-68-9 REGISTRY
CN 1H-Pyrrole, 1,1'-[dithiobis(6-chloro-2,1-phenylene)]bis- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H14 Cl2 N2 S2
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

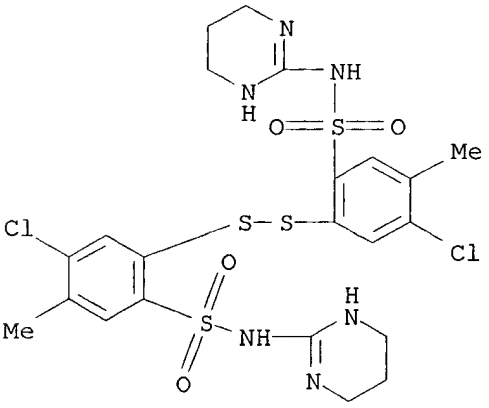
L2 ANSWER 45 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 189367-88-2 REGISTRY
CN Benzamide, 2,2'-dithiobis[N-2-thiazolyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H14 N4 O2 S4
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, TOXLIT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 46 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 189127-04-6 REGISTRY
CN Benzenesulfonamide,
2,2'-dithiobis[4-chloro-5-methyl-N-(3,4,5,6-tetrahydro-
2-pyrimidinyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C22 H26 Cl2 N6 O4 S4
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, TOXLIT



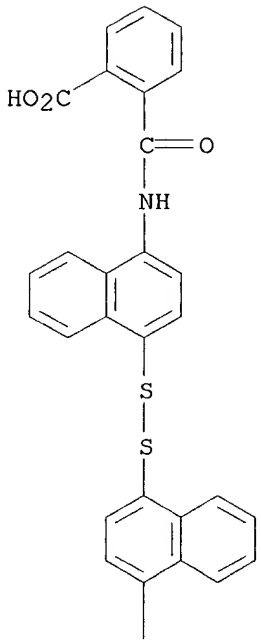
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

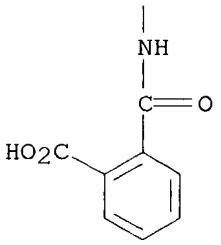
L2 ANSWER 47 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 187744-17-8 REGISTRY
CN Benzoic acid, 2,2'-[dithiobis(4,1-naphthalenediyliminocarbonyl)]bis-
(9CI)
(CA INDEX NAME)

FS 3D CONCORD
MF C36 H24 N2 O6 S2
SR CA
LC STN Files: CA, CAPLUS

PAGE 1-A



PAGE 2-A

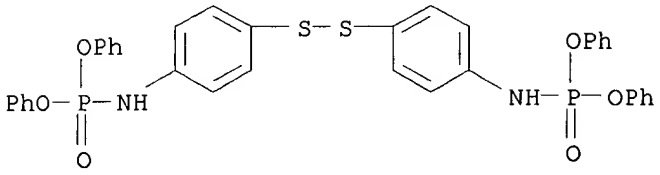


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 48 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 187744-16-7 REGISTRY
CN Phosphoramidic acid, (dithiodi-4,1-phenylene)bis-, tetraphenyl ester (9CI)
(CA INDEX NAME)

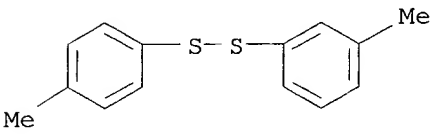
FS 3D CONCORD
MF C36 H30 N2 O6 P2 S2
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

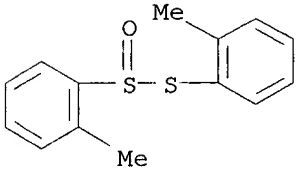
L2 ANSWER 49 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 186098-97-5 REGISTRY
CN Disulfide, 3-methylphenyl 4-methylphenyl (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H14 S2
SR CA
LC STN Files: CA, CAPLUS

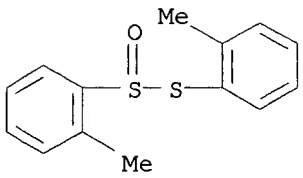


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 50 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 186098-94-2 REGISTRY
CN Benzenesulfinothioic acid, 2-methyl-, S-(2-methylphenyl) ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H14 O S2
SR CA
LC STN Files: CA, CAPLUS





PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> S (LINKER)
L3 839 (LINKER)

=> DIS L3 1 RN

L3 ANSWER 1 OF 839 REGISTRY COPYRIGHT 2002 ACS
RN 366521-36-0 REGISTRY

=> FILE REG

FILE 'REGISTRY' ENTERED AT 10:43:24 ON 11 JAN 2002

STRUCTURE FILE UPDATES: 9 JAN 2002 HIGHEST RN 381664-84-2
DICTIONARY FILE UPDATES: 9 JAN 2002 HIGHEST RN 381664-84-2

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> STR 366521-36-0

366521-36-0 MAY NOT BE USED AS A MODEL
Structures which were created via the STRUCTURE command or are in the Fragment File may be used as models in the STRUCTURE command. Most, but not all, substance Accession Numbers can also be used.
ENTER NAME OF STRUCTURE TO BE RECALLED (NONE):END

=>
THIS FEATURE IS NOT AVAILABLE FOR THE SELECTED CAS RN

```
=> s l2 and linker
           839 LINKER
L4           0 L2 AND LINKER

=> s l2 and link
           157 LINK
L5           0 L2 AND LINK

=>  FIL REGISTRY

FILE 'REGISTRY' ENTERED AT 10:45:18 ON 11 JAN 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2002 American Chemical Society (ACS)

STRUCTURE FILE UPDATES:     9 JAN 2002  HIGHEST RN 381664-84-2
DICTIONARY FILE UPDATES:    9 JAN 2002  HIGHEST RN 381664-84-2

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Calculated physical property data is now available.  See HELP PROPERTIES
for more information.  See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>  SET TERMSET E#

SET COMMAND COMPLETED

=>  DEL SEL Y


=>  SEL L2 47 RN

E1 THROUGH E1 ASSIGNED

=>  S E1/RN

L6           1 187744-17-8/RN

=>  SET TERMSET LOGIN

SET COMMAND COMPLETED

=>  FIL CAPLUS

FILE 'CAPLUS' ENTERED AT 10:45:24 ON 11 JAN 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)
```

FILE COVERS 1907 - 11 Jan 2002 VOL 136 ISS 2
FILE LAST UPDATED: 9 Jan 2002 (20020109/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAplus now provides online access to patents and literature covered in CA from 1907 to the present. Bibliographic information and abstracts were added in 2001 for over 3.8 million records from 1907-1966.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

=> S L6

L7 1 L6

=> DIS L7 1 TI

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
TI Thermal processing type silver halide photographic material containing a disulfide derivative

=> DIS L7 1 TI

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
TI Thermal processing type silver halide photographic material containing a disulfide derivative

=> FIL REGISTRY

FILE 'REGISTRY' ENTERED AT 10:46:06 ON 11 JAN 2002

STRUCTURE FILE UPDATES: 9 JAN 2002 HIGHEST RN 381664-84-2
DICTIONARY FILE UPDATES: 9 JAN 2002 HIGHEST RN 381664-84-2

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information., See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L2 31 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L8 1 213126-89-7/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

FILE 'CAPLUS' ENTERED AT 10:46:12 ON 11 JAN 2002

FILE COVERS 1907 - 11 Jan 2002 VOL 136 ISS 2
FILE LAST UPDATED: 9 Jan 2002 (20020109/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAplus now provides online access to patents and literature covered in CA from 1907 to the present. Bibliographic information and abstracts were added in 2001 for over 3.8 million records from 1907-1966.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

=> S L8

L9 1 L8

=> DIS L9 1 TI

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
TI Photochemical Reactions between C60 and Aromatic Thiols. Protonation of C60 via Photoinduced Electron Transfer

=> file caplus
FILE 'CAPLUS' ENTERED AT 10:46:42 ON 11 JAN 2002

FILE COVERS 1907 - 11 Jan 2002 VOL 136 ISS 2
FILE LAST UPDATED: 9 Jan 2002 (20020109/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGistRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAplus now provides online access to patents and literature covered in CA from 1907 to the present. Bibliographic information and abstracts were added in 2001 for over 3.8 million records from 1907-1966.

CAS roles have been modified effective December 16, 2001. Please

check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

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```
=> d his

     (FILE 'HOME' ENTERED AT 10:39:29 ON 11 JAN 2002)

     FILE 'REGISTRY' ENTERED AT 10:39:37 ON 11 JAN 2002
L1             STRUCTURE UPLOADED
L2          50 S L1
L3         839 S (LINKER)

     FILE 'REGISTRY' ENTERED AT 10:43:24 ON 11 JAN 2002
L4           0 S L2 AND LINKER
L5           0 S L2 AND LINK

     FILE 'REGISTRY' ENTERED AT 10:45:18 ON 11 JAN 2002
               SET TERMSET E#
               DEL SEL Y
               SEL L2 47 RN
L6           1 S E1/RN
               SET TERMSET LOGIN

     FILE 'CAPLUS' ENTERED AT 10:45:24 ON 11 JAN 2002
L7           1 S L6

     FILE 'REGISTRY' ENTERED AT 10:46:06 ON 11 JAN 2002
               SET TERMSET E#
               DEL SEL Y
               SEL L2 31 RN
L8           1 S E1/RN
               SET TERMSET LOGIN

     FILE 'CAPLUS' ENTERED AT 10:46:12 ON 11 JAN 2002
L9           1 S L8

     FILE 'CAPLUS' ENTERED AT 10:46:42 ON 11 JAN 2002

=> s l2
L10         40 L2

=> d l10 1-40 ti

L10  ANSWER 1 OF 40  CAPLUS  COPYRIGHT 2002 ACS
TI   Antiferroelectric liquid crystal composition and liquid crystal element
     using it

L10  ANSWER 2 OF 40  CAPLUS  COPYRIGHT 2002 ACS
```

TI Compound containing a labile disulfide bond

L10 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Compound containing a labile disulfide bond

L10 ANSWER 4 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Synthesis of water-soluble amino sulfonamide ligands and their application
in enantioselective transfer hydrogenation

L10 ANSWER 5 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Selective cellular targeting: multifunctional delivery vehicles

L10 ANSWER 6 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Polythioethers having pendant hydroxymethyl groups with good hydrophilicity, dyeability, and solvent solubility, and their manufacture

L10 ANSWER 7 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI 7-(4,6-dimethoxypyrimidinyl)oxy- and -thiophthalides as novel herbicides: part 1. CGA 279 233: a new grass-killer for rice

L10 ANSWER 8 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI A compound containing a labile disulfide bond

L10 ANSWER 9 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Bis[2-(Acylamino)phenyl] Disulfides, 2-(Acylamino)benzenethiols, and S-[2-(Acylamino)phenyl] Alkanethioates as Novel Inhibitors of Cholesteryl Ester Transfer Protein

L10 ANSWER 10 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Preparation of spiro[1,2-dioxetane-3,2'-adamantane] derivatives as chemiluminescent reagents for determination of thiols and acetylcholinesterase

L10 ANSWER 11 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Ring transformation of 3-(2-oxopropyl)-2(3H)-benzothiazolone in reaction with primary amine

L10 ANSWER 12 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Synthesis of Heterocyclic Thiosulfonates

L10 ANSWER 13 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Preparation of dihydropyrones with tethered heterocycles as HIV protease inhibitors

L10 ANSWER 14 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI 5,6-Dihydropyran-2-ones Possessing Various Sulfonyl Functionalities: Potent Nonpeptidic Inhibitors of HIV Protease

L10 ANSWER 15 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Nonpeptidic HIV protease inhibitors possessing excellent antiviral activities and therapeutic indices. PD 178390: a lead HIV protease inhibitor

L10 ANSWER 16 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Preparation of benzamide thiolesters, disulfides, benzisothiazolones, and related compounds as inactivators of zinc finger containing retroviruses.

L10 ANSWER 17 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Molecular assembly and micellization of molybdenum(V,IV) thiolate and selenolate complexes with long hydrocarbon chains

L10 ANSWER 18 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Syntheses of 1-amino-2-(4-chloro-2-mercaptobenzenesulfonyl)guanidine derivatives with potential pharmacological activity

L10 ANSWER 19 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Syntheses of some 2-hydroxy-1-[(4-chloro-2-mercaptophenyl)sulfonyl]imidazole derivatives with potential anticancer activity

L10 ANSWER 20 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Sodium selenoborate for reduction of arylsulfonyl chlorides, sodium arylsulfinates, and aryl arylsulfonates

L10 ANSWER 21 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI A solid-phase technology for the preparation of combinatorial libraries through amide-bond anchoring

L10 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Synthesis and Biological Properties of Novel Pyridinioalkanoyl Thiolesters (PATE) as Anti-HIV-1 Agents That Target the Viral Nucleocapsid Protein Zinc Fingers

L10 ANSWER 23 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI 2,2'-Dithiobisbenzamides derived from .alpha.-, .beta.- and .gamma.-amino acids possessing anti-HIV activities: synthesis and structure-activity relationship

L10 ANSWER 24 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Preparation of aromatic and heterocyclic nitrato derivatives as vasodilators

L10 ANSWER 25 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Photochemical Reactions between C60 and Aromatic Thiols. Protonation of C60 via Photoinduced Electron Transfer

L10 ANSWER 26 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Preparation of fungicidal quinazolinones

L10 ANSWER 27 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Preparation of 3-arylthio-6-arylethyl-4-hydroxy-5,6-dihydropyran-2-ones as antiretrovirals.

L10 ANSWER 28 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Magnetic recording medium and recording apparatus using same

L10 ANSWER 29 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Electroconductive polymers from Schiff's base monomers end-capped with terminal phenylacetylene groups. II

L10 ANSWER 30 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Photographic element containing recrystallizable 5-pyrazolone photographic

coupler

L10 ANSWER 31 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI 4-Hydroxy-5,6-dihydropyrones. 2. Potent Non-Peptide Inhibitors of HIV Protease

L10 ANSWER 32 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Synthesis and structural characterization of alkyl-substituted oligo(thio-1,4-phenylene)s

L10 ANSWER 33 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Process for the preparation of organosilicon disulfide compounds

L10 ANSWER 34 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Silver halide photographic material containing sulfonyl and/or disulfide compound as fog inhibitor

L10 ANSWER 35 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Bis[2-(triphenylsilyl)phenyl] disulfide

L10 ANSWER 36 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI New pyrrolobenzothiazepine derivatives as molecular probes of the "peripheral-type" benzodiazepine receptor (PBR) binding site

L10 ANSWER 37 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI A new class of anti-HIV-1 agents targeted toward the nucleocapsid protein NCp7: the 2,2'-dithiobisbenzamides

L10 ANSWER 38 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Thermal processing type silver halide photographic material containing a disulfide derivative

L10 ANSWER 39 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI Derivatives of 2-mercaptobenzenesulfonamide. XIX. Syntheses, anticancer and anti-HIV activities of some 2-(4-chloro-2-mercaptobenzenesulfonylimino)perhydropyrimidines

L10 ANSWER 40 OF 40 CAPLUS COPYRIGHT 2002 ACS
TI The "Thio-Arbuzov" reaction of sulfenate esters with sulfenyl chlorides: fate of the thiosulfinate product

=> d l10 1-10 all

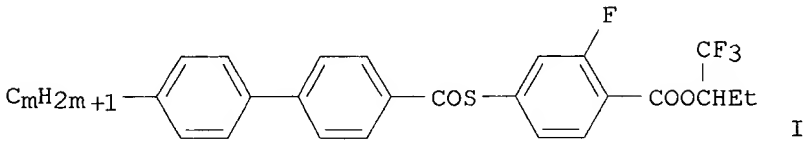
L10 ANSWER 1 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 2001:873232 CAPLUS
DN 136:29244
TI Antiferroelectric liquid crystal composition and liquid crystal element using it
IN Aihara, Yoshihiko; Mogamiya, Hiroyuki; Yamakawa, Noriko
PA Showa Shell Sekiyu K. K., Japan
SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C07C327-32
ICS C07C323-62; C09K019-02; C09K019-28; G02F001-13
CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other

Reprographic Processes)
Section cross-reference(s): 25, 75

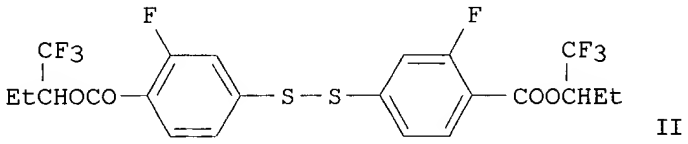
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2001335558	A2	20011204	JP 2000-156521	20000526

GI



I



II

AB The liq. crystal compn. has phase transition temp. .gtoreq.90.degree. from antiferroelec. phase or tristable phase to SmA (smectic A) phase measured by temp. rising process and response speed (.tau.) .ltoreq.5.0 .mu.s at temp. lower than (T - 40).degree. (T = the phase transition temp.). 4-(1,1,1-Trifluorobutyloxycarbonyl)-3-fluorophenyl-4'-alkylbiphenyl-4-thiocarboxylate I (m = 5-11) liq. crystal compd. is prepd. by the reaction of 4-(1,1,1-trifluorobutyl-2-oxycarbonyl)-3-fluorophenyl disulfide II with 4'-alkyl-4-biphenylcarboxylic acid CmH2m+1(p-C6H4)(p-C6H4)CO2H (m = 5-11). 4-(1,1,1-Trifluorobutyl-2-oxycarbonyl)-3-fluorophenyl disulfide II is also claimed. Ferroelec. or antiferroelec. liq. crystal compn. contains I and liq. crystal element contains the compn. The compn. shows antiferroelec. or tristable phase at high temp. and rapid response in wide temp. range.

ST liq crystal antiferroelec ferroelec; biphenyl thiocarboxylate liq crystal compd

IT Liquid crystal displays
(antiferroelec. or tristable liq. crystal compn. contg. di-Ph thiocarboxylate compd.)

IT Antiferroelectric materials
Ferroelectric materials
(liq.-crystal; antiferroelec. or tristable liq. crystal compn. contg. di-Ph thiocarboxylate compd.)

IT Liquid crystals
(smectic; antiferroelec. or tristable liq. crystal compn. contg. di-Ph thiocarboxylate compd.)

IT 377778-29-5
RL: DEV (Device component use); PNU (Preparation, unclassified); PRP (Properties); PREP (Preparation); USES (Uses)
(antiferroelec. or tristable liq. crystal compn. contg. di-Ph

thiocarboxylate compd.)
IT 377778-22-8 377778-23-9 377778-25-1 377778-27-3 377778-28-4
377778-30-8
RL: DEV (Device component use); PRP (Properties); USES (Uses)
(antiferroelec. or tristable liq. crystal compn. contg. di-Ph
thiocarboxylate compd.)
IT **377778-32-0**
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
RACT (Reactant or reagent)
(prepn. and reaction with biphenyl carboxylic acid)
IT 403-24-7, 2-Fluoro-4-nitrobenzoic acid 446-31-1 210416-38-9
210416-39-0
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
RACT (Reactant or reagent)
(prepn. of di-Ph disulfide compd.)
IT 1427-07-2, 2-Fluoro-4-nitrotoluene
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of di-Ph disulfide compd.)
IT 101054-97-1 115154-83-1, 4'-Decyl-4-biphenylcarboxylic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of of thiocarboxylate liq. crystal compd.)

L10 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 2001:851787 CAPLUS
DN 136:11089
TI Compound containing a labile disulfide bond
IN Wolff, Jon A.; Monahan, Sean D.; Budker, Vladimir G.; Slattum, Paul M.;
Rozema, David B.
PA USA
SO U.S. Pat. Appl. Publ., 23 pp., Cont.-in-part of U.S. Ser. No. 312,351.
CODEN: USXXCO
DT Patent
LA English
IC ICM A61K048-00
ICS A61K038-00; C07H021-04; C07K014-00
NCL 514044000
CC 63-5 (Pharmaceuticals)
Section cross-reference(s): 1
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2001044417	A1	20011122	US 2001-779791	20010208
PRAI US 1999-312351	A2	19990514		

AB A labile disulfide-contg. compd. under physiol. conditions contg. a
labile
disulfide bond and a transduction signal is disclosed. A process for
delivery of a compd. to a cell, comprising assocg. a compd. contg. a
disulfide bond that can be cleaved under physiol. conditions, with a
polymer, then delivering the polymer to the cell. The polymer may
comprise a first polymer and a second polymer. The first polymer and the
second polymer may comprise nucleic acids, proteins, genes, antisense
polymers, DNA/RNA hybrids, or synthetic polymers.
ST drug delivery disulfide conjugate protein DNA
IT Proteins
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
(Biological study); PROC (Process)
(ANTP, signalling; compd. contg. a labile disulfide bond)
IT Proteins

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(VP22, signalling; compd. contg. a labile disulfide bond)

IT Polyelectrolytes
(cationic; compd. contg. a labile disulfide bond)

IT Peptides, biological studies
RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)
(cationic; compd. contg. a labile disulfide bond)

IT Disulfide group
Drug delivery systems
Gene therapy
Particle size
Plasmid vectors
Signal transduction, biological
Transformation, genetic
(compd. contg. a labile disulfide bond)

IT Nucleic acids
RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)
(compd. contg. a labile disulfide bond)

IT Thiols (organic), biological studies
RL: BPR (Biological process); BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); PROC (Process); RACT (Reactant or reagent)
(compd. contg. a labile disulfide bond)

IT DNA
RL: PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(complexes; compd. contg. a labile disulfide bond)

IT Mammal (Mammalia)
(drug delivery to; compd. contg. a labile disulfide bond)

IT Drug delivery systems
(injections, i.m.; compd. contg. a labile disulfide bond)

IT Drug delivery systems
(prodrugs; compd. contg. a labile disulfide bond)

IT Transcription factors
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(tat, signalling; compd. contg. a labile disulfide bond)

IT 27025-41-8, Oxidized glutathione
RL: BPR (Biological process); BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); PROC (Process); RACT (Reactant or reagent)
(cleavage of; compd. contg. a labile disulfide bond)

IT 25104-18-1DP, Poly-L-lysine, complexes 38000-06-5DP, Poly-L-lysine, complexes
RL: PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(compd. contg. a labile disulfide bond)

IT 56-17-7, Cystamine dihydrochloride 56-18-8 56-89-3, L-Cystine 69-78-3 112-57-2, Tetraethylenepentamine 538-75-0, Dicyclohexylcarbodiimide 627-18-9 722-27-0, 4-Aminophenyl disulfide 1738-25-6, 3-Dimethylaminopropionitrile 4067-16-7, Pentaethylenehexamine 4097-89-6, Tris(2-aminoethyl)amine 4741-99-5 6066-82-6, N-Hydroxysuccinimide 7087-68-5, Diisopropylethylamine 7209-38-3, 1,4-Bis(3-aminopropyl)piperazine 13531-52-7 25988-63-0, Poly-L-lysine

hydrobromide 52328-05-9, O-Methylisourea hydrogen sulfate 58632-95-4, 2-(tert-Butoxycarbonyloxyimino)-2-phenylacetonitrile 62796-29-6 106754-95-4, 4'-(Aminomethyl)fluorescein 289888-15-9 289888-16-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(compd. contg. a labile disulfide bond)

IT 10389-65-8P 13551-09-2P 60129-38-6P **313056-27-8P** 313056-28-9P 313056-31-4P 313056-32-5P 371246-55-8P 375377-92-7DP, Tat conjugates 375377-93-8P 375377-94-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(compd. contg. a labile disulfide bond)

IT 289888-07-9P 289888-08-0P 289888-09-1P 289888-10-4P 289888-11-5P 289888-12-6P 289888-14-8P 313056-35-8P 313056-36-9P 371246-57-0P 371246-59-2P 371246-66-1P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(compd. contg. a labile disulfide bond)

L10 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 2001:798751 CAPLUS
DN 135:344919
TI Compound containing a labile disulfide bond
IN Wolff, Jon A.; Monahan, Sean D.; Budker, Vladimir G.; Slattum, Paul M.; Rozema, David B.
PA USA
SO U.S. Pat. Appl. Publ., 22 pp., Division of U.S. Ser. No. 312,351.
CODEN: USXXCO
DT Patent
LA English
IC ICM A61K048-00
ICS A61K038-00; C07H021-02; C07H021-04
NCL 514044000
CC 35-5 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 33, 34, 63
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2001036926	A1	20011101	US 2001-795607	20010228
PRAI US 1998-85764	P	19980516		
US 1999-312351	A3	19990514		

AB A labile disulfide-contg. compd. under physiol. conditions, comprises the disulfide-contg. compd. having a labile disulfide bond that is either a disulfide bond that is cleaved more rapidly than oxidized glutathione or a disulfide bond constructed from thiols in which one of the constituent thiols has a lower pKa than glutathione or a disulfide bond that is activated by intramol. attack from a free thiol. Copolymers may be prepd. by the condensation of N-(2-Aminoethyl)-1,3-propanediamine and Di-Me 5,5'-dithiobis(2-nitrobenzoate)propionimidate-2 HCl.

ST aminoethyl propanediamine methyl dithiobisnitrobenzoate propionimidate copolymer; disulfide bond contg polymer cleavable physiol condition

IT Transformation, genetic
(compd. contg. a labile disulfide bond for polymer delivery to cell)

IT Nucleotides, preparation
Peptides, preparation
RL: IMF (Industrial manufacture); PREP (Preparation)

(compd. contg. a labile disulfide bond for polymer delivery to cell)
IT DNA
RL: BPR (Biological process); RCT (Reactant); BIOL (Biological study); PROC (Process)
(complexes with labile disulfide bond contg. polymer; compd. contg. a labile disulfide bond for polymer delivery to cell)
IT Plasmid vectors
(pCI Luc, complexes with DNA; compd. contg. a labile disulfide bond for
polymer delivery to cell)
IT 9002-98-6D, complexes with DNA 25104-18-1D, Poly-L-Lysine, complexes with DNA 38000-06-5D, Poly-L-Lysine, complexes with DNA 289888-07-9D, complexes with DNA 289888-09-1D, complexes with DNA 289888-10-4D, complexes with DNA 289888-11-5D, complexes with DNA 289888-12-6D, complexes with DNA 289888-14-8D, complexes with DNA 289888-15-9D, complexes with DNA 313056-28-9D, complexes with DNA 313056-34-7D, complexes with DNA 313056-37-0D, complexes with DNA
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(compd. contg. a labile disulfide bond for polymer delivery to cell)
IT 289888-07-9P 289888-08-0P 289888-09-1P 289888-10-4P 289888-11-5P 289888-12-6P 289888-14-8P 289888-15-9P 313056-29-0P 313056-34-7P 371246-55-8P 371246-57-0P 371246-58-1P 371246-59-2P 371246-60-5P 371246-61-6P 371246-62-7P 371246-63-8P 371246-64-9P 371246-65-0P 371246-66-1P
RL: IMF (Industrial manufacture); PREP (Preparation)
(compd. contg. a labile disulfide bond for polymer delivery to cell)
IT 13551-09-2P 313056-31-4P 313056-32-5P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation)
(compd. contg. a labile disulfide bond for polymer delivery to cell)
IT 56-89-3, L-Cystine, reactions 69-78-3, 5,5'-Dithiobis(2-nitrobenzoic acid) 109-78-4, 3-Hydroxypropionitrile 627-18-9 1738-25-6, 3-Dimethylaminopropionitrile 6066-82-6, N-Hydroxysuccinimide 52328-05-9, O-Methylisourea hydrogen sulfate 58632-95-4, 2-(tert-Butoxycarbonyloxyimino)-2-phenylacetonitrile
RL: RCT (Reactant)
(compd. contg. a labile disulfide bond for polymer delivery to cell)
IT 371246-56-9P
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. and deprotection; compd. contg. a labile disulfide bond for polymer delivery to cell)
IT 10389-65-8P 60129-38-6P **313056-27-8P** 313056-28-9P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation)
(prepn. and polymn.; compd. contg. a labile disulfide bond for polymer delivery to cell)
IT 70-18-8, Glutathione, reactions
RL: RCT (Reactant)
(reducing agent; compd. contg. a labile disulfide bond for polymer delivery to cell)

L10 ANSWER 4 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 2001:402263 CAPLUS
DN 135:210788
TI Synthesis of water-soluble amino sulfonamide ligands and their application
in enantioselective transfer hydrogenation
AU Bubert, C.; Blacker, J.; Brown, S. M.; Crosby, J.; Fitzjohn, S.; Muxworthy, J. P.; Thorpe, T.; Williams, J. M. J.
CS Department of Chemistry, University of Bath, Bath, BA2 7AY, UK

SO Tetrahedron Lett. (2001), 42(24), 4037-4039
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English
CC 25-7 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
AB Water-sol. analogs of Noyori's (1S,2S)-N-(p-tolylsulfonyl)-1,2-diphenylethylenediamine and Knochel's (1R,2R)-N-(p-tolylsulfonyl)-1,2-diaminocyclohexane, contg. an addnl. sulfonic acid group, have been synthesized. The ruthenium catalyzed redn. of arom. ketones using enantiomerically pure catalyst derived from the water sol. ligands and [RuCl2(p-cymene)]2 has been examd. High enantioselectivity and moderate activity were obsd. in the 2-propanol/base system. The addn. of water is necessary to stabilize the catalyst.
ST asym transfer hydrogenation arom ketone; ruthenium amino sulfonamide asym transfer hydrogenation catalyst; arom alc asym prepn
IT Alcohols, preparation
RL: SPN (Synthetic preparation); PREP (Preparation)
(aralkyl; prepn. of water-sol. amino sulfonamide ligands and their application in enantioselective transfer hydrogenation)
IT Ketones, reactions
RL: RCT (Reactant)
(arom.; prepn. of water-sol. amino sulfonamide ligands and their application in enantioselective transfer hydrogenation)
IT Hydrogenation catalysts
(transfer, stereoselective; ruthenium complexes with water-sol. amino sulfonamide ligands for arom. ketones)
IT 126420-28-8
RL: CAT (Catalyst use); USES (Uses)
(prepn. of water-sol. amino sulfonamide ligands and their application in enantioselective transfer hydrogenation)
IT 357611-95-1P 357611-96-2P 357611-97-3P
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(prepn. of water-sol. amino sulfonamide ligands and their application in enantioselective transfer hydrogenation)
IT 93-08-3, 2-Acetylnaphthalene 98-86-2, Acetophenone, reactions 100-06-1, 4'-Methoxyacetophenone 121-57-3, 4-Aminobenzenesulfonic acid 349-76-8, 3'-(Trifluoromethyl)acetophenone 709-63-7, 4'-(Trifluoromethyl)acetophenone 20439-47-8, (1R,2R)-1,2-Cyclohexanediamine 33356-82-0, 1,2-Benzenedisulfonic anhydride
RL: RCT (Reactant)
(prepn. of water-sol. amino sulfonamide ligands and their application in enantioselective transfer hydrogenation)
IT 27738-88-1P 27738-91-6P 29841-69-8P **357611-98-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of water-sol. amino sulfonamide ligands and their application in enantioselective transfer hydrogenation)
IT 1445-91-6P 1517-69-7P 1517-70-0P 1572-97-0P 27544-18-9P 52193-85-8P 76155-79-8P 96789-80-9P 99493-93-3P 127852-24-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of water-sol. amino sulfonamide ligands and their application in enantioselective transfer hydrogenation)
RE.CNT 18
RE
(1) Anon; Tetrahedron Lett 2001, V42, P4041
(2) Anson, M; J Chem Soc 1998, V21, P3529
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(18) Zassinovich, G; Chem Rev 1992, V92, P1051 CAPLUS

L10 ANSWER 5 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 2001:380438 CAPLUS
DN 135:24657
TI Selective cellular targeting: multifunctional delivery vehicles
IN Glazier, Arnold
PA Drug Innovation + Design, Inc., USA
SO PCT Int. Appl., 981 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM A61K047-48
CC 63-5 (Pharmaceuticals)
Section cross-reference(s): 1, 2, 8, 15, 25, 28
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001036003	A2	20010525	WO 2000-US31262	20001114

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 1999-165485 P 19991115
US 2000-239478 P 20001011
US 2000-241939 P 20001020

AB The present invention relates to the compns., methods, and applications of a novel approach to selective cellular targeting. The purpose of this invention is to enable the selective delivery and/or selective activation of effector mols. to target cells for diagnostic or therapeutic purposes. The present invention relates to multi-functional prodrugs or targeting vehicles wherein each functionality is capable of enhancing targeting selectivity, affinity, intracellular transport, activation or detoxification. The present invention also relates to ultralow dose, multiple target, multiple drug chemotherapy and targeted immunotherapy for cancer treatment.

ST antitumor drug targeting delivery vehicle

IT Multidrug resistance proteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(MDR1, inhibitors; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Prostate gland
(adenocarcinoma; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Receptors
RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
(cell-surface; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Cholecystokinin receptors
RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
(cholecystokinin B; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Proteins, specific or class
RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
(complexes; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Proteins, specific or class
RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
(fibroblast-activating; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Receptors
RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
(folate; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Receptors
RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
(for bombesin-releasing peptide; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Receptors
RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
(for gastrin-releasing peptide; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Transport proteins
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(for nucleosides, inhibitors; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Biological transport
(intracellular; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Antibodies
RL: BPR (Biological process); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(monoclonal; multifunctional delivery vehicles for selective cellular targeting of drugs)

IT Antitumor agents
Cell division
Chelating agents
Cytotoxic agents
Drug targeting
Imaging agents
Immunization
Immunostimulants
(multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Enzymes, biological studies
RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BIOL (Biological study); OCCU (Occurrence)
(multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Laminin receptors
RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
(multifunctional delivery vehicles for selective cellular targeting of drugs)
IT MSH receptors
RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
(multifunctional delivery vehicles for selective cellular targeting of drugs)
IT P-glycoproteins
RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
(multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Prostate-specific antigen
RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
(multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Somatostatin receptors
RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
(multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Biopolymers
RL: BOC (Biological occurrence); BPR (Biological process); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PROC (Process); USES (Uses)
(multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Anthracyclines
Radionuclides
RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Antigens
RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
(neoantigens; multifunctional delivery vehicles for selective cellular targeting of drugs)

IT Receptors
RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
(nitrobenzylthioinosine-binding; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Transport proteins
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(norepinephrine-transporting; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Benzodiazepine receptors
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(peripheral; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Drug delivery systems
(prodrugs; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Ligands
RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
(targetable; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Drug delivery systems
(targeted; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Nucleosides, biological studies
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(transport proteins; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Antigens
RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
(tumor-assocd.; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Vaccines
(tumor; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Biological transport
(uptake; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Antitumor agents
(vaccines; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Opioid receptors
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(.sigma.-opioid; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT Integrins
RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
(.alpha.v.beta.3; multifunctional delivery vehicles for selective cellular targeting of drugs)
IT 9001-01-8, Kallikrein
RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)

(2, human glandular; multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 9024-62-8, Orotidine 5'-phosphate decarboxylase 9029-03-2, Dihydroorotic acid dehydrogenase 9032-02-4
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(inhibitors; multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 342397-39-1P
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PEP (Physical, engineering or chemical process); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 341549-52-8P 341549-53-9P 341549-71-1P 341549-87-9P 341552-14-5P
341552-35-0P 341552-87-2P 341553-15-9P 341553-47-7P 341553-59-1P
341990-79-2P 341990-80-5P 341990-94-1P 341990-96-3P 341990-98-5P
341990-99-6P 341991-00-2P 342383-78-2P 342384-75-2P 342385-42-6P
342388-64-1P 342389-43-9P 342389-44-0P 342389-46-2P 342389-61-1P
342389-62-2P 342389-65-5P 342389-66-6P 342389-71-3P 342389-73-5P
342389-75-7P 342389-76-8P 342390-71-0P 342391-02-0P 342391-78-0P
342392-24-9P 342392-67-0P 342392-75-0P 342392-76-1P 342392-79-4P
342392-80-7P 342395-29-3P 342395-30-6P 342395-36-2P 342395-37-3P
342395-39-5P 342395-40-8P 342395-41-9P 342395-43-1P 342395-44-2P
342395-69-1P 342395-74-8P 342395-75-9P 342395-77-1P 342395-78-2P
342395-79-3P 342395-81-7P 342395-84-0P 342395-85-1P 342395-95-3P
342396-15-0P 342396-56-9P 342397-18-6P 342397-65-3P
RL: BAC (Biological activity or effector, except adverse); PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 341549-26-6P 341549-27-7P 342389-60-0P 342392-57-8P
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 9001-12-1, Collagenase 9001-77-8 9001-92-7, Proteinase 9002-07-7, Trypsin 9004-06-2, MMP 12 9004-08-4, Cathepsin 9025-26-7, Cathepsin d 9025-62-1, Steroid sulfatase 9030-23-3, Thymidine phosphorylase 9031-61-2, Thymidylate synthase 9039-53-6, Urokinase 9040-48-6, Gelatinase 9045-77-6, Fatty acid synthase 9047-22-7, Cathepsin b 9074-87-7, Glutamate carboxypeptidase II 60616-82-2, Cathepsin L 62229-50-9, Egf 79955-99-0, MMP-3 84419-03-4, Guanidinobenzoatase 94716-09-3, Cathepsin k 115926-52-8, Phosphatidylinositol 3-kinase 141256-52-2, Matrilysin 141907-41-7, Matrix metalloproteinase 142008-29-5, Protein kinase a 142243-02-5, Map kinase 142805-58-1, Map kinase kinase 145267-01-2, Stromelysin 3 146480-35-5, MMP 2 162032-86-2, Cathepsin O 175449-82-8, MMP-13 241475-96-7, Matriptase
RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
(multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 9001-90-5, Plasmin

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 50-07-7, Mitomycin c 57-22-7, Vincristine 58-85-5D, Biotin, masked derivs. 59-30-3D, Folic acid, masked derivs. 518-28-5D, Podophyllotoxin, derivs. 519-23-3D, Ellipticine, derivs. 865-21-4, Vinblastine 7689-03-4, Camptothecin 10159-53-2D, Phosphoramide mustard, analogs 11116-31-7D, Bleomycin A2, derivs. 24280-93-1, Mycophenolic acid 33069-62-4D, Taxol, derivs. 52128-35-5, Trimetrexate
65271-80-9D, Mitoxantrone, derivs. 77327-05-0, Didemnin B 112953-11-4 114899-77-3D, Ecteinascidin 743, derivs. 124689-65-2D, analogs 139987-54-5, BW 1843U89 175795-76-3 236743-94-5, Phthalascidin 265646-19-3, Indanocine
RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 1194-98-5P 1499-29-2P 6974-29-4P 90359-20-9P 138915-62-5P
147281-71-8P 165172-57-6P 165454-06-8P 177575-34-7P 214532-01-1P
216220-13-2P 240428-96-0P 341549-88-0P 341549-89-1P 341549-90-4P
341549-91-5P 341549-92-6P 341549-93-7P 341549-94-8P 341549-95-9P
341549-96-0P 341549-97-1P 341549-98-2P 341549-99-3P 341550-00-3P
341550-01-4P 341550-02-5P 341550-03-6P 341550-04-7P 341550-05-8P
341550-06-9P 341550-07-0P 341550-08-1P 341550-09-2P 341550-10-5P
341550-11-6P 341550-12-7P 341550-13-8P 341550-14-9P 341550-15-0P
341550-16-1P 341550-17-2P 341550-18-3P 341550-19-4P 341550-20-7P
341550-21-8P 341550-22-9P 341550-23-0P 341550-24-1P 341550-25-2P
341550-26-3P 341550-27-4P 341550-28-5P 341550-29-6P 341550-30-9P
341550-31-0P 341550-32-1P 341550-33-2P 341550-34-3P 341550-35-4P
341550-36-5P 341550-37-6P 341550-38-7P 341550-39-8P 341550-40-1P
341550-41-2P 341550-42-3P 341550-43-4P 341550-44-5P 341550-45-6P
341550-46-7P 341550-47-8P 341550-48-9P 341550-49-0P 341550-50-3P
341550-51-4P 341550-52-5P 341550-53-6P 341550-54-7P 341550-55-8P
341550-56-9P 341550-57-0P 341550-58-1P 341550-59-2P 341550-60-5P
341550-61-6P 341550-62-7P 341550-63-8P 341550-64-9P 341550-65-0P
341550-66-1P 341550-67-2P 341550-68-3P 341550-69-4P 341550-70-7P
341550-71-8P 341550-72-9P 341550-73-0P 341550-74-1P 341550-75-2P
341550-76-3P 341550-77-4P 341550-78-5P 341550-79-6P 341550-80-9P
341550-81-0P 341550-82-1P 341550-83-2P 341550-84-3P 341550-85-4P
341550-86-5P 341550-87-6P 341550-88-7P 341550-89-8P 341550-90-1P
341550-91-2P 341550-92-3P 341550-93-4P 341550-94-5P 341550-95-6P
341550-96-7P 341550-97-8P 341550-98-9P 341550-99-0P 341551-00-6P
341551-01-7P 341551-02-8P 341551-03-9P 341551-04-0P 341551-05-1P
341551-06-2P 341551-07-3P 341551-08-4P 341551-09-5P 341551-10-8P
341551-11-9P 341551-12-0P 341551-14-2P 341551-16-4P 341551-17-5P
341551-18-6P 341551-19-7P 341551-20-0P 341551-21-1P 341551-22-2P
341551-23-3P 341551-24-4P 341551-25-5P 341551-26-6P 341551-27-7P
341551-28-8P 341551-29-9P 341551-30-2P 341551-31-3P 341551-32-4P
341551-33-5P 341551-34-6P 341551-35-7P 341551-36-8P 341551-37-9P
341551-38-0P 341551-39-1P 341551-40-4P 341551-41-5P 341551-42-6P
341551-43-7P 341551-44-8P 341551-45-9P 341551-46-0P 341551-47-1P
341551-48-2P 341551-49-3P 341551-50-6P 341551-51-7P 341551-52-8P
341551-53-9P 341551-54-0P 341551-55-1P 341551-56-2P 341551-57-3P
341551-58-4P 341551-59-5P 341551-60-8P 341551-61-9P 341551-62-0P
341551-63-1P 341551-64-2P 341551-65-3P 341551-67-5P 341551-68-6P
341551-69-7P 341551-70-0P 341551-71-1P 341551-72-2P

341551-73-3P 341551-74-4P 341551-75-5P 341551-76-6P
341551-77-7P 341551-78-8P 341551-79-9P 341551-80-2P 341551-81-3P
341551-82-4P 341551-83-5P 341551-84-6P 341551-85-7P 341551-86-8P
341551-87-9P 341551-88-0P 341551-89-1P 341551-90-4P 341551-91-5P
341551-92-6P 341551-93-7P 341551-94-8P 341551-95-9P 341551-96-0P
341551-97-1P 341551-98-2P 341551-99-3P 341552-00-9P 341552-01-0P
341552-02-1P 341552-03-2P 341552-04-3P 341552-05-4P 341552-06-5P
341552-07-6P 341552-08-7P 341552-09-8P 341552-10-1P 341552-11-2P
341552-12-3P 341552-13-4P
RL: PNU (Preparation, unclassified); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 341552-15-6P 341552-16-7P 341552-17-8P 341552-18-9P 341552-19-0P
341552-20-3P 341552-21-4P 341552-22-5P 341552-23-6P 341552-24-7P
341552-25-8P 341552-26-9P 341552-27-0P 341552-28-1P 341552-29-2P
341552-30-5P 341552-31-6P 341552-32-7P 341552-33-8P 341552-34-9P
341552-36-1P 341552-37-2P 341552-38-3P 341552-39-4P 341552-40-7P
341552-41-8P 341552-42-9P 341552-43-0P 341552-44-1P 341552-45-2P
341552-46-3P 341552-47-4P 341552-48-5P 341552-49-6P 341552-50-9P
341552-51-0P 341552-52-1P 341552-53-2P 341552-54-3P 341552-55-4P
341552-56-5P 341552-57-6P 341552-58-7P 341552-59-8P 341552-60-1P
341552-61-2P 341552-62-3P 341552-63-4P 341552-64-5P 341552-65-6P
341552-66-7P 341552-67-8P 341552-68-9P 341552-69-0P 341552-70-3P
341552-71-4P 341552-72-5P 341552-73-6P 341552-74-7P 341552-75-8P
341552-76-9P 341552-77-0P 341552-78-1P 341552-79-2P 341552-80-5P
341552-81-6P 341552-82-7P 341552-83-8P 341552-84-9P 341552-85-0P
341552-86-1P 341552-88-3P 341552-89-4P 341552-90-7P 341552-91-8P
341552-93-0P 341552-94-1P 341552-95-2P 341552-96-3P 341552-97-4P
341552-98-5P 341552-99-6P 341553-00-2P 341553-01-3P 341553-02-4P
341553-03-5P 341553-04-6P 341553-05-7P 341553-06-8P 341553-07-9P
341553-08-0P 341553-09-1P 341553-10-4P 341553-11-5P 341553-12-6P
341553-13-7P 341553-14-8P 341553-16-0P 341553-17-1P 341553-18-2P
341553-19-3P 341553-20-6P 341553-21-7P 341553-22-8P 341553-23-9P
341553-24-0P 341553-25-1P 341553-26-2P 341553-27-3P 341553-28-4P
341553-29-5P 341553-30-8P 341553-31-9P 341553-32-0P 341553-33-1P
341553-34-2P 341553-35-3P 341553-36-4P 341553-37-5P 341553-38-6P
341553-39-7P 341553-40-0P 341553-41-1P 341553-42-2P 341553-43-3P
341553-45-5P 341553-46-6P 341553-48-8P 341553-49-9P 341553-50-2P
341553-51-3P 341553-52-4P 341553-53-5P 341553-54-6P 341553-55-7P
341553-56-8P 341553-57-9P 341553-58-0P 341553-60-4P 341553-61-5P
341553-62-6P 341553-63-7P 341553-64-8P 341553-65-9P 341553-67-1P
341553-68-2P 341553-69-3P 341553-70-6P 341990-72-5P 341990-73-6P
341990-74-7P 341990-75-8P 341990-76-9P 341990-77-0P 341990-78-1P
341990-82-7P 341990-83-8P 341990-84-9P 341990-85-0P 341990-86-1P
341990-87-2P 341990-88-3P 341990-89-4P 341990-90-7P 341990-91-8P
341990-92-9P 341990-93-0P 341990-95-2P 341990-97-4P 341991-01-3P
342393-40-2P 342395-76-0P 342395-83-9P 342395-94-2P 342396-85-4P
342398-02-1P 342398-29-2P 342398-57-6P
RL: PNU (Preparation, unclassified); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 197245-25-3P 341549-54-0P 341549-55-1P 341549-56-2P 341549-57-3P
341549-58-4P 341549-59-5P 341549-60-8P 341549-61-9P 341549-62-0P
341549-63-1P 341549-74-4P 341549-76-6P 341549-78-8P 341549-79-9P
341549-80-2P 341549-81-3P 341549-82-4P 341549-83-5P 341549-84-6P
341549-85-7P 341549-86-8P

RL: PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 51-67-2 2495-35-4 3326-32-7 3588-30-5 110914-51-7 121031-01-4 178623-11-5 341549-28-8 341549-30-2 341549-33-5 341549-39-1 341549-73-3
RL: RCT (Reactant)
(multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 5621-44-3P 173039-08-2P 341549-29-9P 341549-31-3P 341549-32-4P 341549-34-6P 341549-36-8P 341549-37-9P 341549-38-0P 341549-40-4P 341549-69-7P 341549-70-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 341549-72-2P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 341549-41-5 341549-42-6 341549-43-7 341549-44-8 341549-45-9 341549-46-0 341549-47-1 341549-48-2 341549-49-3 341549-50-6 341549-51-7 341549-64-2 341549-65-3 341549-66-4 341549-67-5 341549-68-6 341549-77-7 341990-71-4 342392-74-9 342393-39-9
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 9001-78-9, Alkaline phosphatase
RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
(placental type; multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 38048-32-7
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(receptors; multifunctional delivery vehicles for selective cellular targeting of drugs)

L10 ANSWER 6 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 2001:194822 CAPLUS
DN 134:223461
TI Polythioethers having pendant hydroxymethyl groups with good hydrophilicity, dyeability, and solvent solubility, and their manufacture
IN Miuwa, Yoshiyuki; Kunimura, Masaru
PA Ube Industries, Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C08G075-12
CC 37-3 (Plastics Manufacture and Processing)
Section cross-reference(s): 38, 42

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001072771	A2	20010321	JP 1999-252653	19990907

AB [CH2CR1(CH2OH)CH2O(XO)kCH2CR2(CH2OH)CH2SYmS]n [k = 0-30; when k= 1, then X

= (un)substituted alkylene, CONHZNHCO, CO; when k = 2-30, then X = CH2CH2;
Z = arylene(alkylene), alkylene; Y = arylene, alkylene, divalent heterocycle residue, etc.; m = 0, 1; R1, R2 = H, C1-4 alkyl; n .gtoreq.2],
useful for coatings, adhesives, films, etc., are manufd. by polymn. of dioxetanes with dithiols in the presence of onium salts. Thus, 1,4-bis[(3-ethyl-3-oxetanylmethoxy)methyl]benzene was polymd. with bis(4-mercaptophenyl) disulfide in the presence of Ph4PBr at 150.degree. for 10 h to give polythioether with Mw 24,900 and Mn 8500.

ST hydroxymethylated polythioether manuf coating adhesive film; polymn dioxetane dithiol onium catalyst; phenylphosphonium catalyst polymn dioxetane dithiol; ring opening polymn dioxetane dithiol

IT Onium compounds
RL: CAT (Catalyst use); USES (Uses)
(catalysts; manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)

IT Adhesives
Coating materials
Plastic films
(manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)

IT Polythioarylenes
Polythiophenylenes
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polycarbonate-; manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)

IT Polythioarylenes
Polythioethers
Polythiophenylenes
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polyether-; manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)

IT Polycarbonates, preparation
Polyethers, preparation
Polyurethanes, preparation
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polythioarylene-; manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)

IT Polyethers, preparation
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polythioether-; manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)

IT Polycarbonates, preparation
Polyethers, preparation
Polyurethanes, preparation
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polythiophenylene-; manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)

IT Polythioarylenes
Polythiophenylenes
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(polyurethane-; manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)
IT Polymerization catalysts
(ring-opening; manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)
IT 2751-90-8, Tetraphenylphosphonium bromide
RL: CAT (Catalyst use); USES (Uses)
(catalyst; manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)
IT 60763-95-3P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation)
(manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)
IT 329363-98-6P 329363-99-7P 329364-00-3P 329364-01-4P 329364-02-5P
329364-03-6P 329364-04-7P 329364-05-8P 329364-06-9P 329364-07-0P
329364-08-1P 329364-09-2P 329364-10-5P **329364-11-6P**
329364-12-7P 329364-13-8P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)
IT 101-68-8, 4,4'-Diphenylmethane diisocyanate 616-38-6, Dimethyl carbonate
3047-32-3, 3-Ethyl-3-hydroxymethyloxetane
RL: RCT (Reactant)
(manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)

L10 ANSWER 7 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 2001:166870 CAPLUS
DN 134:306559
TI 7-(4,6-dimethoxypyrimidinyl)oxy- and -thiophthalides as novel herbicides: part 1. CGA 279 233: a new grass-killer for rice
AU Luthy, Christoph; Zondler, Helmut; Rapold, Thomas; Seifert, Gottfried; Urwyler, Bernhard; Heinis, Thomas; Steinrucken, Hans Christian; Allen, James
CS Syngenta Crop Protection AG, Basel, CH-4002, Switz.
SO Pest Manage. Sci. (2001), 57(3), 205-224
CODEN: PMSCFC; ISSN: 1526-498X
PB John Wiley & Sons Ltd.
DT Journal
LA English
CC 5-3 (Agrochemical Bioregulators)
Section cross-reference(s): 28
AB A series of novel types of 7-(4,6-dimethoxypyrimidin-2-yl)oxy - and -thio-3-methyl-1 (3H)-isobenzofuranones were discovered. From the thio-isobenzofuranyl series, CGA 279233, proposed common name pyriftalid, was chosen for further development as a grass herbicide for use in rice. Synthetic approaches to these new phthalic acid-derived compds. are given, with emphasis on the synthesis of pyriftalid and its physicochem. behavior.
ST phthalide deriv prepn herbicide
IT Herbicides
(dimethoxypyrimidinyl)oxy- and -thiophthalides)
IT Structure-activity relationship
(herbicidal; of dimethoxypyrimidinyl)oxy- and -thiophthalides)

IT 9027-45-6, Acetolactate synthase
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(dimethoxypyrimidinyl)oxy- and -thiophthalide herbicides as inhibitors of)

IT 135186-68-4 135186-70-8 135186-82-2 135186-83-3 135187-16-5
135187-19-8 135187-22-3 135187-38-1 135187-46-1 135187-56-3
135217-15-1 148843-74-7 154502-20-2 180209-30-7 304855-54-7
304855-55-8 304855-56-9 304855-57-0 304855-67-2 304855-69-4
304855-71-8 304855-72-9 304855-73-0 304855-74-1 304855-75-2
304855-76-3 335279-15-7 335279-16-8 335279-17-9 335279-18-0
335279-20-4 335279-21-5 335279-22-6 335279-23-7 335279-24-8
335279-25-9 335279-26-0 335279-27-1 335279-28-2 335279-29-3
335279-30-6 335279-31-7 335279-32-8 335279-33-9 335279-34-0
335279-35-1 335279-36-2 335279-37-3 335279-38-4 335279-39-5
335279-41-9 335279-42-0 335279-43-1 335279-44-2 335279-45-3
335279-46-4 335279-47-5 335279-48-6 335279-49-7 335279-50-0
335279-51-1 335279-52-2 335279-53-3 335279-54-4 335279-55-5
335279-56-6 335279-57-7 335279-58-8 335279-59-9 335279-60-2
335279-61-3
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BIOL (Biological study); USES (Uses)
(herbicidal and acetolactate-synthetase-inhibiting activity of)

IT 3400-31-5P 13619-67-5P 13619-70-0P, 2-Acetyl-6-nitrobenzoic acid
30991-02-7P 135217-37-7P, 7-Mercapto-3-methylphthalide 146516-73-6P
148843-77-0P 335279-63-5P 335279-64-6P **335279-65-7P**
335279-66-8P 335279-67-9P 335279-68-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(intermediate in prepn. of dimethoxypyrimidinylthiophthalide herbicides)

IT 135186-78-6P 136192-69-3P 304855-68-3P 304855-70-7P 304855-77-4P
304855-78-5P 335279-40-8P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and herbicidal and acetolactate-synthetase-inhibiting activity of)

RE.CNT 66

RE

(1) Allard, J; Proc 17th Asian Pacific Weed Science Society 1999
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L10 ANSWER 8 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 2000:881172 CAPLUS
DN 134:46794
TI A compound containing a labile disulfide bond
IN Wolff, Jon A.
PA Mirus Corporation, USA
SO PCT Int. Appl., 61 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C07H021-02

ICS C07H021-04; C07K001-00; A01N037-18; A01N043-04
CC 63-6 (Pharmaceuticals)
Section cross-reference(s): 1, 25
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000075162	A1	20001214	WO 2000-US15652	20000607
	W: JP				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 1102784	A1	20010530	EP 2000-939635	20000607
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	US 1999-137859	P	19990607		
	WO 2000-US15652	W	20000607		

AB A labile disulfide-contg. compd. under physiol. conditions, comprises: the disulfide-contg. compd. having a labile disulfide bond that is either a disulfide bond that is cleaved more rapidly than oxidized glutathione or a disulfide bond constructed from thiols in which one of the constituent thiols has a lower pKa than glutathione or a disulfide bond that is activated by intramol. attack from a free thiol. Di-Me 5,5'-dithiobis(2-nitrobenzoate)propionimidate-2HCl was prepd. and a complex was formed between this compd., DNA and polylysine.

ST disulfide bond compd polymer delivery cell

IT Disulfide group
Drug delivery systems
Transformation, genetic
(compd. contg. a labile disulfide bond for polymer delivery to cells)

IT Nucleotides, biological studies
Peptides, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(compd. contg. a labile disulfide bond for polymer delivery to cells)

IT DNA
RL: RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(complexes; compd. contg. a labile disulfide bond for polymer delivery to cells)

IT Plasmid vectors
(pCI Luc; compd. contg. a labile disulfide bond for polymer delivery to cells)

IT 56-89-3D, L-Cystine, complex with DNA and disulfides, biological studies
RL: BPR (Biological process); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(compd. contg. a labile disulfide bond for polymer delivery to cells)

IT 56-89-3, L-Cystine, reactions 69-78-3, 5,5'-Dithiobis(2-nitrobenzoic acid) 109-78-4, 3-Hydroxypropionitrile 627-18-9 1738-25-6, 3-Dimethylaminopropionitrile 6066-82-6, N-Hydroxysuccinimide 25104-18-1, Polylysine 38000-06-5, Polylysine 52328-05-9, O-Methylisourea hydrogen sulfate 289888-14-8D, complex with 1,4-bis(3-aminopropyl)piperazine 289888-14-8D, complex with DNA and cystine
RL: RCT (Reactant)
(compd. contg. a labile disulfide bond for polymer delivery to cells)

IT 10389-65-8P 13551-09-2P 60129-38-6P 289888-07-9P 289888-08-0P 289888-09-1P 289888-10-4P 289888-11-5P 289888-12-6P 289888-15-9P

313056-27-8P 313056-28-9P 313056-29-0P 313056-31-4P
313056-32-5P 313056-33-6P 313056-34-7DP, complex with DNA and pCI Luc
313056-34-7P 313056-35-8P 313056-36-9P 313056-37-0DP, complexes with
DNA 313056-37-0P 313056-38-1P 313056-39-2P 313056-40-5P
313056-41-6DP, complex with DNA and pCI Luc
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(compd. contg. a labile disulfide bond for polymer delivery to cells)
IT 25104-18-1DP, Polylysine, complexes with DNA and disulfides
38000-06-5DP, Polylysine, complexes with DNA and disulfides
289888-09-1DP, complex with DNA and pCI Luc 289888-10-4DP, complex with
DNA and pCI Luc 289888-11-5DP, complex with DNA and pCI Luc
289888-12-6DP, complex with DNA and pCI Luc 313056-28-9DP, complex with
DNA and polylysine
RL: RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(compd. contg. a labile disulfide bond for polymer delivery to cells)
RE.CNT 5
RE
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(3) Pastan; US 5747654 A 1998 CAPLUS
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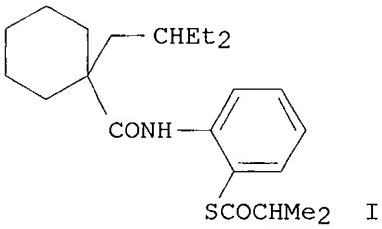
(5) Zara; US 5157123 A 1992 CAPLUS

L10 ANSWER 9 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 2000:607709 CAPLUS
DN 133:321682
TI Bis[2-(Acylamino)phenyl] Disulfides, 2-(Acylamino)benzenethiols, and S-[2-(Acylamino)phenyl] Alkanethioates as Novel Inhibitors of Cholesteryl Ester Transfer Protein
AU Shinkai, Hisashi; Maeda, Kimiya; Yamasaki, Takahiro; Okamoto, Hiroshi; Uchida, Itsuo
CS Central Pharmaceutical Research Institute, JT Inc., Osaka, 569-1125, Japan
SO Journal of Medicinal Chemistry (2000), 43(19), 3566-3572
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English
CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 1
GI



I

AB A series of bis[2-(acylamino)phenyl] disulfides, 2-(acylamino)benzenethiols, S-[2-(acylamino)phenyl] alkanethioates, and

related compds. were synthesized, and their inhibitory effect on cholesteryl ester transfer protein activity in human plasma was evaluated.
This study elucidated the structural requirements for inhibitory activity and detd. that the optimum compd. was I (JTT-705). I achieved 50% inhibition of CETP activity in human plasma at a concn. of 9 .mu.M and 95% inhibition of CETP activity in male Japanese white rabbits at an oral dose of 30 mg/kg. It increased the plasma HDL cholesterol level by 27 and 54%, resp., when given at oral doses of 30 or 100 mg/kg once a day for 3 days to male Japanese white rabbits.

ST acylaminophenyl disulfide prepn CETP inhibition; alkanethioate acylaminophenyl prepn CETP inhibition; acylaminobenzenethiol prepn CETP inhibition; cholesteryl ester transfer protein inhibitor arylamide

IT Proteins, specific or class
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(cholesterol ester-exchanging; bis[2-(acylamino)phenyl] disulfides, 2-(acylamino)benzenethiols, and S-[2-(acylamino)phenyl] alkanethioates as inhibitors of)

IT 135-57-9P 4490-97-5P 117137-42-5P 187744-28-1P 211513-18-7P 211513-21-2P 211513-23-4P 211513-96-1P 211513-97-2P 211513-99-4P 303054-94-6P
RL: BAC (Biological activity or effector, except adverse); RCT (Reactant);
SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(bis[2-(acylamino)phenyl] disulfides, 2-(acylamino)benzenethiols, and S-[2-(acylamino)phenyl] alkanethioates as inhibitors of cholesteryl ester transfer protein)

IT 2527-60-8P 143790-61-8P 211513-26-7P 211513-27-8P 211513-28-9P 211513-37-0P 211513-70-1P 211513-71-2P 211514-21-5P 292826-14-3P 303054-95-7P **303054-96-8P** 303054-97-9P 303054-98-0P 303054-99-1P 303055-00-7P 303055-03-0P
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(bis[2-(acylamino)phenyl] disulfides, 2-(acylamino)benzenethiols, and S-[2-(acylamino)phenyl] alkanethioates as inhibitors of cholesteryl ester transfer protein)

IT 79-30-1, Isobutyryl chloride 95-55-6, 2-Aminophenol 98-89-5, Cyclohexanecarboxylic acid 103-80-0, Phenylacetyl chloride 119-80-2, 2,2'-Dithiobis[benzoic acid] 1123-25-7, 1-Methylcyclohexanecarboxylic acid 1141-88-4, 2,2'-Dithiobis[aniline] 2890-61-1, 1-Methylcyclohexanecarbonyl chloride 3814-34-4, 1-Bromo-2-ethylbutane
RL: RCT (Reactant)
(bis[2-(acylamino)phenyl] disulfides, 2-(acylamino)benzenethiols, and S-[2-(acylamino)phenyl] alkanethioates as inhibitors of cholesteryl ester transfer protein)

IT 303055-05-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(bis[2-(acylamino)phenyl] disulfides, 2-(acylamino)benzenethiols, and S-[2-(acylamino)phenyl] alkanethioates as inhibitors of cholesteryl ester transfer protein)

RE.CNT 15
RE
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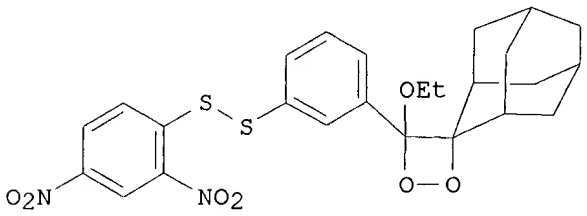
(15) Zhong, S; J Clin Invest 1996, V97, P2917 CAPLUS

L10 ANSWER 10 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 2000:535112 CAPLUS
DN 133:150547
TI Preparation of spiro[1,2-dioxetane-3,2'-adamantane] derivatives as chemiluminescent reagents for determination of thiols and acetylcholinesterase
IN Grassi, Jacques; Sabelle, Stephane; Renard, Pierre-Yves
PA Commissariat a l'Energie Atomique, Fr.
SO PCT Int. Appl., 51 pp.
CODEN: PIXXD2
DT Patent
LA French
IC ICM C07D
CC 28-4 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 9
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000044719	A2	20000803	WO 2000-FR183	20000127
	W: CA, JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	FR 2789075	A1	20000804	FR 1999-949	19990128
	FR 2789075	B1	20010302		
PRAI	FR 1999-949	A	19990128		

OS CASREACT 133:150547; MARPAT 133:150547
GI



II

AB R3SZZ1CRR1OOCRR4R5 [I; RR = bond; R1 = H, alkyl, alkoxy, aryl(oxy), etc.; R3 = substituted Ph or -polyarom. group (sic); R4,R5 = alkyl or aryl; R4R5 = atoms to complete a (poly)cycloalkyl group or -(polycyclic) aryl group;

Z = O or S; Z1 = (un)substituted arylene] were prepd. Thus, 3-IC6H4CO2Et was thiolated by Bu3SnCMe3 (prepn. each given) and the product condensed with 2-adamantanone to give 3-(Me3CS)C6H4C(:X)OEt (X = 2-adamantylidene) which was S-thiolated by 2,4-(O2N)C6H3SCl to give, after ozonation, title compd. II. Anal. use of I was demonstrated.

ST spirodioxetaneadamantane prepn chemiluminescent reagent; detn thiol acetylcholinesterase spirodioxetaneadamantane prepn

IT Chemiluminescence spectroscopy
Chemiluminescent substances
(prepn. of spiro[1,2-dioxetane-3,2'-adamantane] derivs. as chemiluminescent reagents for detn. of thiols and acetylcholinesterase)

IT Thiols (organic), analysis
RL: ANT (Analyte); ANST (Analytical study)
(prepn. of spiro[1,2-dioxetane-3,2'-adamantane] derivs. as chemiluminescent reagents for detn. of thiols and acetylcholinesterase)

IT 625-00-3, Thiocholine 9000-81-1, Acetylcholinesterase
RL: ANT (Analyte); ANST (Analytical study)
(prepn. of spiro[1,2-dioxetane-3,2'-adamantane] derivs. as chemiluminescent reagents for detn. of thiols and acetylcholinesterase)

IT **287171-81-7P** 287171-83-9P
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(prepn. of spiro[1,2-dioxetane-3,2'-adamantane] derivs. as chemiluminescent reagents for detn. of thiols and acetylcholinesterase)

IT 75-66-1, tert-Butylthiol 528-76-7, 2,4-Dinitrobenzenesulfenyl chloride 700-58-3, 2-Adamantanone 1461-22-9, Tributyltin chloride 18162-48-6, tert-Butyldimethylsilyl chloride 19438-10-9, Methyl 3-hydroxybenzoate 24398-88-7, Ethyl 3-bromobenzoate
RL: RCT (Reactant)
(prepn. of spiro[1,2-dioxetane-3,2'-adamantane] derivs. as chemiluminescent reagents for detn. of thiols and acetylcholinesterase)

IT 23728-82-7P 58313-23-8P, Ethyl 3-iodobenzoate 111807-81-9P 120687-94-7P 121445-45-2P 287171-78-2P 287171-79-3P 287171-80-6P 287171-82-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of spiro[1,2-dioxetane-3,2'-adamantane] derivs. as chemiluminescent reagents for detn. of thiols and acetylcholinesterase)

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L2 50 S L1
L3 839 S (LINKER)

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L4 0 S L2 AND LINKER
L5 0 S L2 AND LINK

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L10          40 S L2

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DMAX -------- MAX, delimited for post-processing
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IND --------- Indexing data
IPC --------- International Patent Classifications
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PATS -------- PI, SO
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SCAN -------- CC, SX, TI, ST, IT (random display, no answer numbers;
              SCAN must be entered on the same line as the DISPLAY,
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IALL -------- ALL, indented with text labels
IBIB -------- BIB, indented with text labels
IMAX -------- MAX, indented with text labels
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SIBIB ------- IBIB, no citations

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HITIND ------ IC, ICA, ICI, NCL, CC and index field (ST and IT)
              containing hit terms
HITRN ------- HIT RN and its text modification
HITSTR ------ HIT RN, its text modification, its CA index name, and
              its structure diagram
HITSEQ ------ HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
              its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
KWIC -------- Hit term plus 20 words on either side
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To display a particular field or fields, enter the display field
codes.  For a list of the display field codes, enter HELP DFIELDS at
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TI,IND; TI,SO.  You may specify the format fields in any order and the
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All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR,
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ALL --------- BIB, AB, IND, RE
APPS -------- AI, PRAI
BIB --------- AN, plus Bibliographic Data and PI table (default)
CAN --------- List of CA abstract numbers without answer numbers
CBIB -------- AN, plus Compressed Bibliographic Data
DALL -------- ALL, delimited (end of each field identified)
DMAX -------- MAX, delimited for post-processing
FAM --------- AN, PI and PRAI in table, plus Patent Family data
FBIB -------- AN, BIB, plus Patent FAM
IND --------- Indexing data
IPC --------- International Patent Classifications
MAX --------- ALL, plus Patent FAM, RE
PATS -------- PI, SO
SAM --------- CC, SX, TI, ST, IT
SCAN -------- CC, SX, TI, ST, IT (random display, no answer numbers;
              SCAN must be entered on the same line as the DISPLAY,
              e.g., D SCAN or DISPLAY SCAN)
STD --------- BIB, IPC, and NCL

IABS -------- ABS, indented with text labels
IALL -------- ALL, indented with text labels
IBIB -------- BIB, indented with text labels
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ISTD -------- STD, indented with text labels
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OBIB -------- AN, plus Bibliographic Data (original)
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SBIB -------- BIB, no citations
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HIT --------- Fields containing hit terms
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              containing hit terms
HITRN ------- HIT RN and its text modification
HITSTR ------ HIT RN, its text modification, its CA index name, and
              its structure diagram
HITSEQ ------ HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
              its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
KWIC -------- Hit term plus 20 words on either side
OCC --------- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field
codes.  For a list of the display field codes, enter HELP DFIELDS at
an arrow prompt (=>).  Examples of formats include: TI; TI,AU; BIB,ST;
TI,IND; TI,SO.  You may specify the format fields in any order and the
information will be displayed in the same order as the format
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All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR,
FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC
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L10  ANSWER 1 OF 40  CAPLUS  COPYRIGHT 2002 ACS
AN   2001:873232  CAPLUS
DN   136:29244
TI   Antiferroelectric liquid crystal composition and liquid crystal element
     using it
IN   Aihara, Yoshihiko; Mogamiya, Hiroyuki; Yamakawa, Noriko
PA   Showa Shell Sekiyu K. K., Japan
SO   Jpn. Kokai Tokkyo Koho, 10 pp.
     CODEN: JKXXAF
DT   Patent
LA   Japanese
FAN.CNT 1
     PATENT NO.         KIND  DATE          APPLICATION NO.  DATE
     ---------------    ----  --------      ---------------  --------
PI   JP 2001335558       A2   20011204      JP 2000-156521   20000526


=> d l1 11-40 bib
L1 HAS NO ANSWERS
'BIB ' IS NOT A VALID STRUCTURE FORMAT KEYWORD
Structure Formats
SIA ----- Structure Image, Attributes, and map table if it contains
          data.  (Default)
SIM ----- Structure IMage.
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SAT ----- Structure ATtributes and map table if it contains data.
SCT ----- Structure Connection Table and map table if it contains
          data.
SDA ----- All Structure DAta (image, attributes, connection table and
          map table if it contains data).
NOS ----- NO Structure data.
ENTER STRUCTURE FORMAT (SIM), NOS:
ENTER STRUCTURE FORMAT (SIM), NOS:exit
'EXIT' IS NOT A VALID STRUCTURE FORMAT KEYWORD
Structure Formats
SIA ----- Structure Image, Attributes, and map table if it contains
          data.  (Default)
SIM ----- Structure IMage.
SAT ----- Structure ATtributes and map table if it contains data.
SCT ----- Structure Connection Table and map table if it contains
          data.
SDA ----- All Structure DAta (image, attributes, connection table and
          map table if it contains data).
NOS ----- NO Structure data.
ENTER STRUCTURE FORMAT (SIM), NOS:nos
L1              STR


=> d l10 11-40 bib

L10  ANSWER 11 OF 40  CAPLUS  COPYRIGHT 2002 ACS
AN   2000:318180  CAPLUS
DN   133:73982
TI   Ring transformation of 3-(2-oxopropyl)-2(3H)-benzothiazolone in reaction
     with primary amine
AU   Petrova, Katia; Kalcheva, Veneta; Antonova, Antonina
CS   "St. Kl. Ohridski" Department of Chemistry I James Bourchier, Sofia
     University, Sofia, 1164, Bulg.
SO   Phosphorus, Sulfur Silicon Relat. Elem. (2000), 158, 67-80
     CODEN: PSSLEC; ISSN: 1042-6507
PB   Gordon & Breach Science Publishers
DT   Journal
LA   English
OS   CASREACT 133:73982
RE.CNT  26
RE
(1) Abe, T; 1985 CAPLUS
(2) Abe, T; Ensho 1983, V3, P507 CAPLUS
(3) Calis, U; Arzneim-Forsch/Drug Res 1992, V42, P592 CAPLUS
(5) De Kimpe, N; Recl Trav Chem Pays-Bas 1994, V113, P283 CAPLUS
(8) Hetzheim, A; Chem 1970, V10, P385 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10  ANSWER 12 OF 40  CAPLUS  COPYRIGHT 2002 ACS
AN   2000:198537  CAPLUS
DN   132:333984
TI   Synthesis of Heterocyclic Thiosulfonates
AU   Prasad, J. V. N. Vara
CS   Department of Chemistry, Parke-Davis Pharmaceutical Research Division of
     Warner-Lambert Company, Ann Arbor, MI, 48106, USA
SO   Org. Lett. (2000), 2(8), 1069-1072
     CODEN: ORLEF7; ISSN: 1523-7060
PB   American Chemical Society
```

DT Journal
LA English
RE.CNT 14
RE
(1) Clark, R; Synthesis 1991, P871 CAPLUS
(2) Devlin, T; Synth Commun 1995, V25, P711 CAPLUS
(3) Gagliardi, S; J Med Chem 1998, V41, P1568 CAPLUS
(6) Hagen, S; J Med Chem 1997, V40, P3707 CAPLUS
(7) Kher, S; J Org Chem 1995, V60, P5838 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 13 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 2000:191081 CAPLUS
DN 132:236987
TI Preparation of dihydropyrones with tethered heterocycles as HIV protease inhibitors
IN Boyer, Frederick Earl, Jr.; Domagala, John Michael; Ellsworth, Edmund Lee;
Gajda, Christopher Andrew; Hagen, Susan Elizabeth; Lovdahl, Michael James;
Lunney, Elizabeth Ann; Markoski, Larry James; Josyula, Vara Prasad Venkata
Nagendra; Tait, Bradley Dean
PA Warner-Lambert Co., USA; et al.
SO PCT Int. Appl., 282 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000015634	A2	20000323	WO 1999-US18986	19990818
	WO 2000015634	A3	20001116		
	W: AE, AL, AU, BA, BB, BG, BR, CA, CN, CR, CU, CZ, DM, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9957802	A1	20000403	AU 1999-57802	19990818
	BR 9913598	A	20010529	BR 1999-13598	19990818
	EP 1112269	A2	20010704	EP 1999-969092	19990818
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	US 1998-99946	P	19980911		
	WO 1999-US18986	W	19990818		

OS MARPAT 132:236987

L10 ANSWER 14 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 2000:104823 CAPLUS
DN 132:273836
TI 5,6-Dihydropyran-2-ones Possessing Various Sulfonyl Functionalities: Potent Nonpeptidic Inhibitors of HIV Protease
AU Boyer, Frederick E.; Prasad, J. V. N. Vara; Domagala, John M.; Ellsworth, Edmund L.; Gajda, Christopher; Hagen, Susan E.; Markoski, Larry J.; Tait, Bradley D.; Lunney, Elizabeth A.; Palovsky, Alexander; Ferguson, Donna; Graham, Neil; Holler, Tod; Hupe, Donald; Nouhan, Carolyn; Tummino, Peter

J.; Urumov, A.; Zeikus, Eric; Zeikus, Greg; Gracheck, Stephen J.; Sanders,
James M.; VanderRoest, Steven; Brodfuehrer, Joanne; Iyer, Krishna; Sinz, Michael; Gulnik, Sergei V.; Erickson, John W.
CS Departments of Chemistry Biochemistry Infectious Diseases and PDM, Parke-Davis Pharmaceutical Research Division of Warner-Lambert Company, Ann Arbor, MI, 48105, USA
SO J. Med. Chem. (2000), 43(5), 843-858
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English
RE.CNT 31
RE
(1) Barry, M; Clin Pharmacokinet 1997, V32, P194 CAPLUS
(3) Carpenter, M; J Org Chem 1951, P586 CAPLUS
(4) Chiba, M; Drug Metab Dispos 1996, V24, P307 CAPLUS
(5) Deeks, S; J Am Med Assoc 1997, V277, P145 CAPLUS
(6) Erickson, J; Nature Struct Biol 1995, V2, P523 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 15 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 2000:71430 CAPLUS
DN 132:194265
TI Nonpeptidic HIV protease inhibitors possessing excellent antiviral activities and therapeutic indices. PD 178390: a lead HIV protease inhibitor
AU Prasad, J. V. N. Vara; Boyer, Frederick E.; Domagala, John M.; Ellsworth, Edmund L.; Gajda, Christopher; Hamilton, Harriet W.; Hagen, Susan E.; Markoski, Larry J.; Steinbaugh, Bruce A.; Tait, Bradley D.; Humblet, Christine; Lunney, Elizabeth A.; Pavlovsky, Alexander; Rubin, John R.; Ferguson, Donna; Graham, Neil; Holler, Tod; Hupe, Donald; Nouhan, Carolyn;
Tummino, Peter J.; Urumov, A.; Zeikus, Eric; Zeikus, Greg; Gracheck, Stephen J.; Saunders, James M.; VanderRoest, Steven; Brodfuehrer, Joanne; Iyer, K.; Sinz, M.; Gulnik, Sergei V.; Erickson, John W.
CS Department of Chemistry, Parke-Davis Pharmaceutical Research, Division of Warner-Lambert Company, Ann Arbor, MI, 48105, USA
SO Bioorg. Med. Chem. (1999), 7(12), 2775-2800
CODEN: BMECEP; ISSN: 0968-0896
PB Elsevier Science Ltd.
DT Journal
LA English
RE.CNT 40
RE
(1) Buckheit, R; Antiviral Res 1993, V21, P247 CAPLUS
(2) Chiba, M; Drug Metab Dispos 1996, V24, P307 CAPLUS
(4) Deeks, S; JAMA 1997, V277, P145 CAPLUS
(6) Erickson, J; Nature Structural Biology 1995, V2, P523 CAPLUS
(7) Eyermann, C; Advances in Amino Acid Mimetics and Peptidomimetics 1997, V1, P1 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 16 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 1999:811208 CAPLUS
DN 132:49889
TI Preparation of benzamide thiolesters, disulfides, benzisothiazolones, and related compounds as inactivators of zinc finger containing retroviruses.

IN Turpin, Jim A.; Song, Yongsheng; Inman, John K.; Huang, Mingjun; Wallqvist, Anders; Maynard, Andrew; Covell, David G.; Rice, William G.; Appella, Ettore
PA United States of America, Department of Health and Human Services, USA
SO PCT Int. Appl., 82 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9965871	A2	19991223	WO 1999-US13856	19990618
	WO 9965871	A3	20001123		
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9946972	A1	20000105	AU 1999-46972	19990618
	BR 9911385	A	20010313	BR 1999-11385	19990618
	EP 1087941	A2	20010404	EP 1999-930428	19990618
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRAI	US 1998-89842	P	19980619		
	WO 1999-US13856	W	19990618		

OS MARPAT 132:49889

L10 ANSWER 17 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 1999:525807 CAPLUS
DN 131:266146
TI Molecular assembly and micellization of molybdenum(V,IV) thiolate and selenolate complexes with long hydrocarbon chains
AU Okamura, Taka-Aki; Taniuchi, Kaku; Ueyama, Norikazu; Nakamura, Akira
CS Department of Macromolecular Science, Graduate School of Science, Osaka University, Osaka, 560-0043, Japan
SO Polym. J. (Tokyo) (1999), 31(8), 651-657
CODEN: POLJB8; ISSN: 0032-3896
PB Society of Polymer Science, Japan
DT Journal
LA English
RE.CNT 28
RE
(1) Baena, M; J Am Chem Soc 1994, V116, P1899 CAPLUS
(2) Baxter, D; J Am Chem Soc 1994, V116, P4551 CAPLUS
(3) Boyd, I; Aust J Chem 1978, V31, P279 CAPLUS
(6) Dance, I; Aust J Chem 1978, V31, P519 CAPLUS
(7) Ghadiri, M; J Am Chem Soc 1992, V114, P4000 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 18 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 1999:506347 CAPLUS
DN 132:137146
TI Syntheses of 1-amino-2-(4-chloro-2-mercaptobenzenesulfonyl)guanidine derivatives with potential pharmacological activity

AU Pomarnacka, Elzbieta; Kornicka, Anita
CS Department of Chemical Technology of Drugs, Medical University of Gdansk, Gdansk, 80-416, Pol.
SO Acta Pol. Pharm. (1999), 56(2), 143-153
CODEN: APPHAX; ISSN: 0001-6837
PB Polish Pharmaceutical Society
DT Journal
LA English
RE.CNT 15
RE
(1) Artico, M; Il Farmaco 1996, V51, P305 CAPLUS
(2) Baumgarth, M; J Med Chem 1997, V40, P2017 CAPLUS
(4) Brzozowski, Z; Acta Polon Pharm 1984, V41, P133 CAPLUS
(5) Brzozowski, Z; Acta Polon Pharm 1985, V42, P313 CAPLUS
(6) Brzozowski, Z; Acta Polon Pharm - Drug Research 1998, V55, P49 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 19 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 1999:506346 CAPLUS
DN 132:137328
TI Syntheses of some 2-hydroxy-1-[(4-chloro-2-mercaptophenyl)sulfonyl]imidazole derivatives with potential anticancer activity
AU Brzozowski, Zdzislaw; Kornicka, Anita
CS Department of Chemical Drug Technology, Medical University of Gdansk, Gdansk, 80-416, Pol.
SO Acta Pol. Pharm. (1999), 56(2), 135-142
CODEN: APPHAX; ISSN: 0001-6837
PB Polish Pharmaceutical Society
DT Journal
LA English
RE.CNT 14
RE
(4) Brzozowski, Z; Acta Polon Pharm - Drug Research 1995, V52, P91 CAPLUS
(5) Brzozowski, Z; Acta Polon Pharm - Drug Research 1996, V53, P269 CAPLUS
(6) Brzozowski, Z; Acta Polon Pharm - Drug Research 1997, V54, P293 CAPLUS
(7) Brzozowski, Z; Acta Polon Pharm - Drug Research 1998, V55, P233 CAPLUS
(8) Brzozowski, Z; Acta Polon Pharm - Drug Research 1998, V55, P375 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 20 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 1999:421985 CAPLUS
DN 131:214038
TI Sodium selenoborate for reduction of arylsulfonyl chlorides, sodium arylsulfinates, and aryl arylsulfonates
AU Zhuang, Meihua; Yu, Biyu; Shao, Jianguo
CS Department of Chem. and Chem. Engin., Yangzhou Univ., Yangzhou, 225002, Peop. Rep. China
SO Yangzhou Daxue Xuebao, Ziran Kexueban (1999), 2(2), 19-21
CODEN: YDXKFT; ISSN: 1007-824X
PB Yangzhou Daxue Xuebao Bianjibu
DT Journal
LA Chinese

L10 ANSWER 21 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 1999:354463 CAPLUS
DN 131:5528
TI A solid-phase technology for the preparation of combinatorial libraries

through amide-bond anchoring
IN Johnson, Tony; Quibell, Martin; Howe, Joanne
PA Peptide Therapeutics Limited, UK
SO PCT Int. Appl., 46 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9926902	A1	19990603	WO 1998-GB3523	19981126
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9913420	A1	19990615	AU 1999-13420	19981126
	AU 734992	B2	20010628		
	EP 1034154	A1	20000913	EP 1998-956988	19981126
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
	JP 2001524457	T2	20011204	JP 2000-522063	19981126
PRAI	GB 1997-24853	A	19971126		
	GB 1998-8744	A	19980425		
	WO 1998-GB3523	W	19981126		

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(2) Holmes, C; WO 9600378 A 1996 CAPLUS
(3) Johnson, T; WO 9817628 A 1998 CAPLUS
(4) Lebl, M; WO 9218144 A 1992 CAPLUS

L10 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 1998:814205 CAPLUS
DN 130:217595
TI Synthesis and Biological Properties of Novel Pyridinioalkanoyl Thiolesters
(PATE) as Anti-HIV-1 Agents That Target the Viral Nucleocapsid Protein Zinc Fingers
AU Turpin, Jim A.; Song, Yongsheng; Inman, John K.; Huang, Mingjun; Wallqvist, Anders; Maynard, Andrew; Covell, David G.; Rice, William G.; Appella, Ettore
CS Laboratory of Antiviral Drug Mechanisms and Laboratory of Experimental and
Computational Biology National Cancer Institute-Frederick Cancer Research and Development Center, SAIC Frederick, Frederick, MD, 21702-1201, USA
SO J. Med. Chem. (1999), 42(1), 67-86
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English
RE.CNT 51
RE

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(2) Bader, J; Proc Natl Acad Sci U S A 1991, V88, P6740 CAPLUS
(3) Baggaley, K; J Med Chem 1985, V28, P1661 CAPLUS
(4) Berg, J; Science 1986, V232, P485 CAPLUS
(5) Bernstein, F; J Mol Biol 1977, V112, P535 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 23 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 1998:737260 CAPLUS
DN 130:95792
TI 2,2'-Dithiobisbenzamides derived from .alpha.-, .beta.- and .gamma.-amino acids possessing anti-HIV activities: synthesis and structure-activity relationship
AU Prasad, J. V. N. Vara; Loo, Joseph A.; Boyer, Frederick E.; Stier, Michael
A.; Gogliotti, Rocco D.; Turner, William J.; Harvey, Patricia J.; Kramer, Melissa R.; Mack, David P.; Scholten, Jefferey D.; Gracheck, Stephen J.; Domagala, John M.
CS Department of Chemistry, Parke-Davis Pharmaceutical Research, Division of Warner-Lambert Company, Ann Arbor, MI, 48105, USA
SO Bioorg. Med. Chem. (1998), 6(10), 1707-1730
CODEN: BMECEP; ISSN: 0968-0896
PB Elsevier Science Ltd.
DT Journal
LA English
RE.CNT 38
RE
(1) Aldovini, A; J Virol 1990, V64, P1920 CAPLUS
(2) Buckheit, R; Antiviral Res 1993, V21, P247 CAPLUS
(4) Darlix, J; C R Acad Sci III 1993, V316, P763 CAPLUS
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ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 24 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 1998:672509 CAPLUS
DN 129:275693
TI Preparation of aromatic and heterocyclic nitrato derivatives as vasodilators
IN Haj-Yehia, Abdullah
PA Yissum Research Development Company of the Hebrew, Israel
SO PCT Int. Appl., 56 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9842661	A1	19981001	WO 1998-IL144	19980326
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9865160	A1	19981020	AU 1998-65160	19980326

EP 984928 A1 20000315 EP 1998-910963 19980326
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI
JP 2001520670 T2 20011030 JP 1998-545375 19980326
PRAI IL 1997-120531 A 19970326
WO 1998-IL144 W 19980326

L10 ANSWER 25 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 1998:561795 CAPLUS
DN 129:244780
TI Photochemical Reactions between C60 and Aromatic Thiols. Protonation of C60 via Photoinduced Electron Transfer
AU Alam, Maksudul M.; Sato, Masahiro; Watanabe, Akira; Akasaka, Takeshi; Ito, Osamu
CS Institute for Chemical Reaction Science, Tohoku University, Katahira Sendai, 980-8577, Japan
SO J. Phys. Chem. A (1998), 102(38), 7447-7451
CODEN: JPCAFH; ISSN: 1089-5639
PB American Chemical Society
DT Journal
LA English

L10 ANSWER 26 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 1998:424091 CAPLUS
DN 129:95502
TI Preparation of fungicidal quinazolinones
IN Bellina, Russell Frank; Bereznak, James Francis; Christensen, Joel Robert; Chang, Zen-Yu; Fawzi, Maged Mohamed; Marshall, Eric Allen; Moberg, William Karl; Rorer, Morris Padgett; Sternberg, Charlene Gross; Walker, Michael Paul; Zimmerman, William Thomas
PA E.I. Du Pont de Nemours and Co., USA
SO PCT Int. Appl., 78 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9826664	A1	19980625	WO 1997-US22779	19971215
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, ID, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9853803	A1	19980715	AU 1998-53803	19971215
EP 946095	A1	19991006	EP 1997-950927	19971215
R: CH, DE, FR, GB, IT, LI				

PRAI US 1996-33657 P 19961217
US 1997-41964 P 19970403
WO 1997-US22779 W 19971215
OS MARPAT 129:95502

L10 ANSWER 27 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 1998:323234 CAPLUS
DN 129:16055
TI Preparation of 3-arylthio-6-arylethyl-4-hydroxy-5,6-dihydropyran-2-ones as
antiretrovirals.
IN Boyer, Frederick Earl, Jr.; Domagala, John Michael; Ellsworth, Edmund Lee;
Gajda, Christopher Andrew; Hagen, Susan Elizabeth; Hamilton, Harriet Wall;
Markoski, Larry James; Prasad, Josyula Venkata Nagendra Vara; et al.
PA Warner-Lambert Co., USA; Boyer, Frederick Earl, Jr.; Domagala, John Michael; Ellsworth, Edmund Lee; Gajda, Christopher Andrew; Hagen, Susan Elizabeth; Hamilton, Harriet Wall
SO PCT Int. Appl., 147 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9819997	A2	19980514	WO 1997-US19853	19971031
	WO 9819997	A3	19980827		
	W: AL, AU, BA, BB, BG, BR, CA, CN, CZ, EE, GE, GH, HU, IL, IS, JP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 5834506	A	19981110	US 1997-883743	19970627
	AU 9851001	A1	19980529	AU 1998-51001	19971031
	AU 733700	B2	20010524		
	EP 935597	A2	19990818	EP 1997-913943	19971031
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	BR 9714588	A	20000530	BR 1997-14588	19971031
	JP 2001504102	T2	20010327	JP 1998-521607	19971031
	US 6046355	A	20000404	US 1998-124190	19980728
	NO 9902103	A	19990430	NO 1999-2103	19990430
	KR 2000052951	A	20000825	KR 1999-703824	19990430
PRAI	US 1996-29906	P	19961101		
	US 1997-883743	A	19970627		
	WO 1997-US19853	W	19971031		

OS MARPAT 129:16055

L10 ANSWER 28 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 1998:298262 CAPLUS
DN 129:61897
TI Magnetic recording medium and recording apparatus using same
IN Matsunuma, Satoshi; Hosoe, Yuzuru
PA Hitachi, Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PI JP 10124844 A2 19980515 JP 1996-281033 19961023

L10 ANSWER 29 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 1998:147987 CAPLUS
DN 128:205178
TI Electroconductive polymers from Schiff's base monomers end-capped with terminal phenylacetylene groups. II
AU Kim, Il
CS Department Chemical Engineering, University Ulsan, Ulsan, 680-749, S. Korea
SO Polymer (Korea) (1998), 22(1), 64-73
CODEN: POLLDG; ISSN: 0379-153X
PB Polymer Society of Korea
DT Journal
LA Korean

L10 ANSWER 30 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 1997:684224 CAPLUS
DN 128:8724
TI Photographic element containing recrystallizable 5-pyrazolone photographic coupler
IN Spara, Paul Patrick; Krishnamurthy, Sundaram; Cowan, Stanley Wray; McGarry, Ruthann M.
PA Eastman Kodak Co., USA
SO U.S., 23 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5677118	A	19971014	US 1996-693938	19960510

OS MARPAT 128:8724

L10 ANSWER 31 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 1997:671222 CAPLUS
DN 127:341374
TI 4-Hydroxy-5,6-dihydropyrones. 2. Potent Non-Peptide Inhibitors of HIV Protease
AU Tait, Bradley D.; Hagen, Susan; Domagala, John; Ellsworth, Edmund; Gajda, Christopher; Hamilton, Harriet; Vara Prasad, J. V. N.; Ferguson, Donna; Graham, Neil; Hupe, Donald; Nouhan, Caroline; Tummino, Peter J.; Humblet, Christine; Lunney, Elizabeth A.; Pavlovsky, Alexander; Rubin, John; Baldwin, Eric T.; Bhat, T. N.; Erickson, John W.; Gulnik, Sergei V.; Liu, Beishan
CS Departments of Chemistry and Biochemistry and Biomolecular Structure and Drug Design, Parke-Davis Pharmaceutical Research Division of the Warner-Lambert Company, Ann Arbor, MI, 48106, USA
SO J. Med. Chem. (1997), 40(23), 3781-3792
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English

L10 ANSWER 32 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 1997:534077 CAPLUS
DN 127:247878

TI Synthesis and structural characterization of alkyl-substituted oligo(thio-1,4-phenylene)s
AU Kuhn, Gerhard; Kelm, Jurgen
CS Bundesanstalt Materialforschung -Prufung, Berlin, D-12205, Germany
SO J. Prakt. Chem./Chem.- Ztg. (1997), 339(6), 578-581
CODEN: JPCCEM; ISSN: 0941-1216
PB Barth
DT Journal
LA English

L10 ANSWER 33 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 1997:503117 CAPLUS
DN 127:190852
TI Process for the preparation of organosilicon disulfide compounds
IN Cohen, Martin Paul; Wideman, Lawson Gibson
PA Goodyear Tire and Rubber Co., USA
SO Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 785206	A1	19970723	EP 1997-100454	19970114
	R: BE, DE, FR, GB, IT				
	US 5663358	A	19970902	US 1996-589283	19960122
	CA 2180888	AA	19970723	CA 1996-2180888	19960710
	JP 10001487	A2	19980106	JP 1997-8522	19970121
PRAI	US 1996-589283		19960122		

OS MARPAT 127:190852

L10 ANSWER 34 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 1997:453317 CAPLUS
DN 127:154564
TI Silver halide photographic material containing sulfonyl and/or disulfide compound as fog inhibitor
IN Okada, Hisashi; Asanuma, Naoki
PA Fuji Photo Film Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 32 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09160167	A2	19970620	JP 1995-315008	19951204

OS MARPAT 127:154564

L10 ANSWER 35 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 1997:355091 CAPLUS
DN 126:349862
TI Bis[2-(triphenylsilyl)phenyl] disulfide
AU Miller, John R.; Lu, Canzhong; Zheng, Yifan
CS Dep. Biological Chem. Sci., Univ. Essex, Colchesster, CO4 3SQ, UK
SO Acta Crystallogr., Sect. C: Cryst. Struct. Commun. (1997), C53(5), 654-655
CODEN: ACSCEE; ISSN: 0108-2701
PB Munksgaard

DT Journal
LA English

L10 ANSWER 36 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 1997:275793 CAPLUS
DN 126:343549
TI New pyrrolobenzothiazepine derivatives as molecular probes of the "peripheral-type" benzodiazepine receptor (PBR) binding site
AU Campiani, G.; Nacci, V.; Fiorini, I.; De Filippis, M. P.; Garofalo, A.; Ciani, S. M.; Greco, G.; Novellino, E.; Manzoni, C.; Mennini, T.
CS Dipartimento Farmaco Chimico Tecnologico, Universita di Siena, Siena, 53100, Italy
SO Eur. J. Med. Chem. (1997), 32(3), 241-252
CODEN: EJMCA5; ISSN: 0223-5234
PB Elsevier
DT Journal
LA English

L10 ANSWER 37 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 1997:228839 CAPLUS
DN 126:311761
TI A new class of anti-HIV-1 agents targeted toward the nucleocapsid protein NCp7: the 2,2'-dithiobisbenzamides
AU Domagala, John M.; Bader, John P.; Gogliotti, Rocco D.; Sanchez, Joseph P.; Stier, Michael A.; Song, Yuntao; Prasad, J.V.N. Vara; Tummino, Peter J.; Scholten, Jeffrey; et al.
CS Division of Warner-Lambert Company, Departments of Chemistry and Therapeutics, Parke-Davis Pharmaceutical Research, Ann Arbor, MI, 48105, USA
SO Bioorg. Med. Chem. (1997), 5(3), 569-579
CODEN: BMECEP; ISSN: 0968-0896
PB Elsevier
DT Journal
LA English

L10 ANSWER 38 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 1997:204498 CAPLUS
DN 126:205418
TI Thermal processing type silver halide photographic material containing a disulfide derivative
IN Okada, Hisashi; Totani, Ichizo; Kojima, Tetsuo
PA Fuji Photo Film Co Ltd, Japan
SO Jpn. Kokai Tokkyo Koho, 38 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09005926	A2	19970110	JP 1996-85994	19960315
PRAI	JP 1995-115274		19950418		

L10 ANSWER 39 OF 40 CAPLUS COPYRIGHT 2002 ACS
AN 1997:183782 CAPLUS
DN 126:287661
TI Derivatives of 2-mercaptobenzenesulfonamide. XIX. Syntheses, anticancer and anti-HIV activities of some 2-(4-chloro-2-mercaptobenzenesulfonylimino)perhydropyrimidines

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AU   Pomarnacka, Elzbieta
CS   Department of Chemical Drug Technology, Medical University of Gdansk,
     Gdansk, 80-416, Pol.
SO   Acta Pol. Pharm. (1996), 53(5), 373-378
     CODEN: APPHAX; ISSN: 0001-6837
PB   Polish Pharmaceutical Society
DT   Journal
LA   English

L10  ANSWER 40 OF 40  CAPLUS  COPYRIGHT 2002 ACS
AN   1997:10653  CAPLUS
DN   126:117777
TI   The "Thio-Arbuzov" reaction of sulfenate esters with sulfenyl chlorides:
     fate of the thiosulfinate product
AU   Brown, Charles; Evans, Graham R.
CS   Chem. Lab., Univ. Kent Canterbury, Canterbury, CT2 7NH, UK
SO   Tetrahedron Lett. (1996), 37(50), 9101-9104
     CODEN: TELEAY; ISSN: 0040-4039
PB   Elsevier
DT   Journal
LA   English


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L3         839 S (LINKER)

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L5           0 S L2 AND LINK

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               SEL L2 31 RN
L8           1 S E1/RN
               SET TERMSET LOGIN

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=> d l11 1-11 bib

L11  ANSWER 1 OF 11  CAPLUS  COPYRIGHT 2002 ACS
AN   1997:684224  CAPLUS
DN   128:8724
TI   Photographic element containing recrystallizable 5-pyrazolone
photographic
     coupler
IN   Spara, Paul Patrick; Krishnamurthy, Sundaram; Cowan, Stanley Wray;
     McGarry, Ruthann M.
PA   Eastman Kodak Co., USA
SO   U.S., 23 pp.
     CODEN: USXXAM
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   US 5677118         A    19971014       US 1996-693938   19960510 <--
OS   MARPAT 128:8724

L11  ANSWER 2 OF 11  CAPLUS  COPYRIGHT 2002 ACS
AN   1997:671222  CAPLUS
DN   127:341374
TI   4-Hydroxy-5,6-dihydropyrones. 2. Potent Non-Peptide Inhibitors of HIV
     Protease
AU   Tait, Bradley D.; Hagen, Susan; Domagala, John; Ellsworth, Edmund; Gajda,
     Christopher; Hamilton, Harriet; Vara Prasad, J. V. N.; Ferguson, Donna;
     Graham, Neil; Hupe, Donald; Nouhan, Caroline; Tummino, Peter J.; Humblet,
     Christine; Lunney, Elizabeth A.; Pavlovsky, Alexander; Rubin, John;
     Baldwin, Eric T.; Bhat, T. N.; Erickson, John W.; Gulnik, Sergei V.; Liu,
     Beishan
CS   Departments of Chemistry and Biochemistry and Biomolecular Structure and
     Drug Design, Parke-Davis Pharmaceutical Research Division of the
     Warner-Lambert Company, Ann  Arbor, MI, 48106, USA
SO   J. Med. Chem. (1997), 40(23), 3781-3792
     CODEN: JMCMAR; ISSN: 0022-2623
PB   American Chemical Society
DT   Journal
LA   English

L11  ANSWER 3 OF 11  CAPLUS  COPYRIGHT 2002 ACS
AN   1997:534077  CAPLUS
DN   127:247878
TI   Synthesis and structural characterization of alkyl-substituted
     oligo(thio-1,4-phenylene)s
AU   Kuhn, Gerhard; Kelm, Jurgen
CS   Bundesanstalt Materialforschung -Prufung, Berlin, D-12205, Germany
SO   J. Prakt. Chem./Chem.- Ztg. (1997), 339(6), 578-581
     CODEN: JPCCEM; ISSN: 0941-1216
PB   Barth
DT   Journal
LA   English
```

L11 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1997:503117 CAPLUS
DN 127:190852
TI Process for the preparation of organosilicon disulfide compounds
IN Cohen, Martin Paul; Wideman, Lawson Gibson
PA Goodyear Tire and Rubber Co., USA
SO Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 785206	A1	19970723	EP 1997-100454	19970114 <--
	R: BE, DE, FR, GB, IT				
	US 5663358	A	19970902	US 1996-589283	19960122 <--
	CA 2180888	AA	19970723	CA 1996-2180888	19960710 <--
	JP 10001487	A2	19980106	JP 1997-8522	19970121
PRAI	US 1996-589283		19960122		

OS MARPAT 127:190852

L11 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1997:453317 CAPLUS
DN 127:154564
TI Silver halide photographic material containing sulfonyl and/or disulfide compound as fog inhibitor
IN Okada, Hisashi; Asanuma, Naoki
PA Fuji Photo Film Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 32 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09160167	A2	19970620	JP 1995-315008	19951204 <--

OS MARPAT 127:154564

L11 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1997:355091 CAPLUS
DN 126:349862
TI Bis[2-(triphenylsilyl)phenyl] disulfide
AU Miller, John R.; Lu, Canzhong; Zheng, Yifan
CS Dep. Biological Chem. Sci., Univ. Essex, Colchesster, CO4 3SQ, UK
SO Acta Crystallogr., Sect. C: Cryst. Struct. Commun. (**1997**), C53(5), 654-655
CODEN: ACSCEE; ISSN: 0108-2701
PB Munksgaard
DT Journal
LA English

L11 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1997:275793 CAPLUS
DN 126:343549
TI New pyrrolobenzothiazepine derivatives as molecular probes of the "peripheral-type" benzodiazepine receptor (PBR) binding site
AU Campiani, G.; Nacci, V.; Fiorini, I.; De Filippis, M. P.; Garofalo, A.;

Ciani, S. M.; Greco, G.; Novellino, E.; Manzoni, C.; Mennini, T.
CS Dipartimento Farmaco Chimico Tecnologico, Universita di Siena, Siena, 53100, Italy
SO Eur. J. Med. Chem. (**1997**), 32(3), 241-252
CODEN: EJMCA5; ISSN: 0223-5234
PB Elsevier
DT Journal
LA English

L11 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1997:228839 CAPLUS
DN 126:311761
TI A new class of anti-HIV-1 agents targeted toward the nucleocapsid protein NCp7: the 2,2'-dithiobisbenzamides
AU Domagala, John M.; Bader, John P.; Gogliotti, Rocco D.; Sanchez, Joseph P.; Stier, Michael A.; Song, Yuntao; Prasad, J.V.N. Vara; Tummino, Peter J.; Scholten, Jeffrey; et al.
CS Division of Warner-Lambert Company, Departments of Chemistry and Therapeutics, Parke-Davis Pharmaceutical Research, Ann Arbor, MI, 48105, USA
SO Bioorg. Med. Chem. (**1997**), 5(3), 569-579
CODEN: BMECEP; ISSN: 0968-0896
PB Elsevier
DT Journal
LA English

L11 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1997:204498 CAPLUS
DN 126:205418
TI Thermal processing type silver halide photographic material containing a disulfide derivative
IN Okada, Hisashi; Totani, Ichizo; Kojima, Tetsuo
PA Fuji Photo Film Co Ltd, Japan
SO Jpn. Kokai Tokkyo Koho, 38 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09005926	A2	19970110	JP 1996-85994	19960315 <--
PRAI	JP 1995-115274		19950418		

L11 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1997:183782 CAPLUS
DN 126:287661
TI Derivatives of 2-mercaptobenzenesulfonamide. XIX. Syntheses, anticancer and anti-HIV activities of some 2-(4-chloro-2-mercaptobenzenesulfonylimino)perhydropyrimidines
AU Pomarnacka, Elzbieta
CS Department of Chemical Drug Technology, Medical University of Gdansk, Gdansk, 80-416, Pol.
SO Acta Pol. Pharm. (**1996**), 53(5), 373-378
CODEN: APPHAX; ISSN: 0001-6837
PB Polish Pharmaceutical Society
DT Journal
LA English

L11 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1997:10653 CAPLUS
DN 126:117777
TI The "Thio-Arbuzov" reaction of sulfenate esters with sulfenyl chlorides: fate of the thiosulfinate product
AU Brown, Charles; Evans, Graham R.
CS Chem. Lab., Univ. Kent Canterbury, Canterbury, CT2 7NH, UK
SO Tetrahedron Lett. (**1996**), 37(50), 9101-9104
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier
DT Journal
LA English

=> d l11 1-11 all

L11 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1997:684224 CAPLUS
DN 128:8724
TI Photographic element containing recrystallizable 5-pyrazolone photographic coupler
IN Spara, Paul Patrick; Krishnamurthy, Sundaram; Cowan, Stanley Wray; McGarry, Ruthann M.
PA Eastman Kodak Co., USA
SO U.S., 23 pp.
CODEN: USXXAM
DT Patent
LA English
IC ICM G03C007-384
NCL 430555000
CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5677118	A	19971014	US 1996-693938	19960510 <--

OS MARPAT 128:8724
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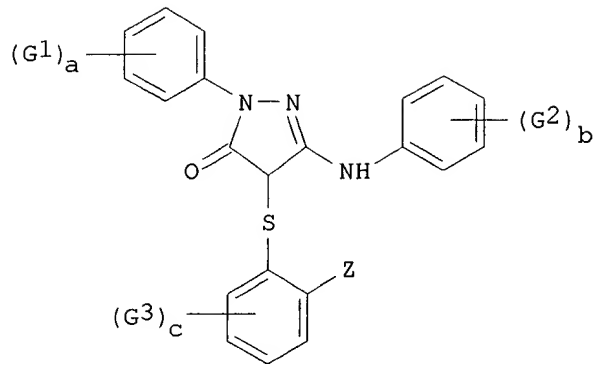

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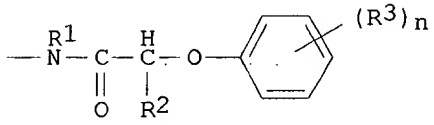


II

AB The invention provides a photog. element comprising a support bearing at least one silver halide emulsion layer having assocd. therewith a 5-pyrazolone photog. coupler represented by the formula I wherein G1-3 are individually selected from the group consisting of hydrogen, halogen, alkyl, alkoxy, aryloxy, acylamino, alkylthio, arylthio, sulfonamido, sulfamoyl, sulfamido, carbamoyl, diacylamino, alkoxycarbonyl, aryloxycarbonyl, alkoxysulfonyl, aryloxysulfonyl, alkylsulfonyl, alkylsulfoxyl, arylsulfoxyl, arylsulfonyl, alkoxycarbonylamino, aryloxycarbonylamino, alkylureido, arylureido, acyloxy, nitro, cyano, and carboxy; a and b are individually integers from 0 to 5, provided that the sum of the sigma values for G1 and G2 is at least 1.3; c is an integer from 0 to 4; Z is a group of the formula II wherein R1 is selected from the group consisting of hydrogen, alkyl, alkenyl, aryl, acyl, and heterocyclic groups; R2 is selected from the group consisting of hydrogen and alkyl having from 1 to 16 carbon atom; and R3 is identically substituted Me or silyl and n is an integer from 1 to 3.

ST recrystallizable pyrazolone photog coupler

IT Photographic couplers
(recrystallizable pyrazolone derivs. as)

IT 101820-00-2P 189939-81-9P 189939-83-1P 198696-51-4P 198696-52-5P **198696-53-6P** 198696-55-8P
RL: RCT (Reactant); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(prepn. and reaction in prepn. of pyrazolone photog. coupler)

IT 198696-50-3P 198696-54-7P 198696-56-9P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(prepn. and use as photog. coupler)

IT 96-76-4 615-96-3 1141-88-4 160309-51-3
RL: RCT (Reactant); TEM (Technical or engineered material use); USES (Uses)
(reaction in prepn. of pyrazolone photog. coupler)

L11 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1997:671222 CAPLUS

DN 127:341374
TI 4-Hydroxy-5,6-dihydropyrones. 2. Potent Non-Peptide Inhibitors of HIV Protease
AU Tait, Bradley D.; Hagen, Susan; Domagala, John; Ellsworth, Edmund; Gajda, Christopher; Hamilton, Harriet; Vara Prasad, J. V. N.; Ferguson, Donna; Graham, Neil; Hupe, Donald; Nouhan, Caroline; Tummino, Peter J.; Humblet, Christine; Lunney, Elizabeth A.; Pavlovsky, Alexander; Rubin, John; Baldwin, Eric T.; Bhat, T. N.; Erickson, John W.; Gulnik, Sergei V.; Liu, Beishan
CS Departments of Chemistry and Biochemistry and Biomolecular Structure and Drug Design, Parke-Davis Pharmaceutical Research Division of the Warner-Lambert Company, Ann Arbor, MI, 48106, USA
SO J. Med. Chem. (**1997**), 40(23), 3781-3792
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English
CC 1-3 (Pharmacology)
Section cross-reference(s): 27
AB The 4-hydroxy-5,6-dihydropyrone template was utilized as a flexible scaffolding from which to build potent active site inhibitors of HIV protease. Dihydropyrone (5,6-dihydro-4-hydroxy-6-phenyl-3-[(2-phenylethyl)thio]-2H-pyran-2-one) (I) was modeled in the active site of HIV protease utilizing a similar binding mode found for the previously reported 4-hydroxybenzopyran-2-ones. Our model led us to pursue the synthesis of 6,6-disubstituted dihydropyrones with the aim of filling S1 and S2 and thereby increasing the potency of the parent dihydropyrone I which did not fill S2. Toward this end we attached various hydrophobic and hydrophilic side chains at the 6-position of the dihydropyrone to mimic the natural and unnatural amino acids known to be effective substrates at P2 and P2'. Parent dihydropyrone I (IC50 = 2100 nM) was elaborated into compds. with greater than a 100-fold increase in potency

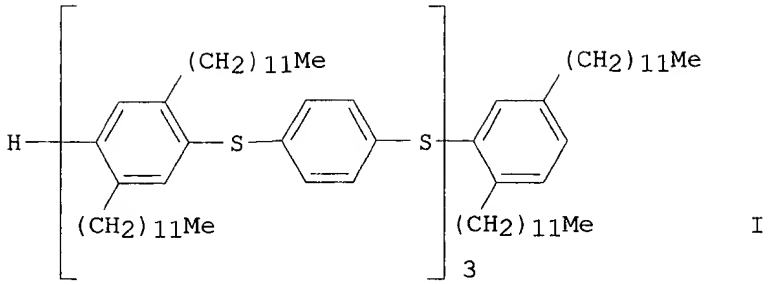
[5-(3,6-dihydro-4-hydroxy-6-oxo-2-phenyl-5-[2-(phenylethyl)thio]-2H-pyran-2-yl)pentanoic acid and
5,6-dihydro-4-hydroxy-6-phenyl-6-(2-phenylethyl)-3-[(2-phenylethyl)thio]-2H-pyran-2-one; IC = 5 and 51 nM, resp.]. Optimization of the 3-position fragment to fill S1' and S2' afforded potent HIV protease inhibitor [
3-[(2-tert-butyl-5-methylphenyl)sulfanyl]-5,6-dihydro-4-hydroxy-6-phenyl-6-(2-phenylethyl)-2H-pyran-2-one, IC = 10 nM]. The resulting low mol. wt. compds. (<475) have one or no chiral centers and are readily synthesized.
ST dihydropyrone deriv prepn HIV protease inhibitor; antiviral HIV protease inhibitor mol modeling
IT Anti-AIDS drugs
Antiviral agents
Antiviral structure-activity relationship
Molecular modeling
(mol. modeling and prepn. of 4-hydroxy-5,6-dihydropyrones as inhibitors
of HIV protease)
IT 144114-21-6, Retropepsin
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(inhibitors; mol. modeling and prepn. of 4-hydroxy-5,6-dihydropyrones as inhibitors of HIV protease)
IT 137-06-4P 6262-87-9P 6807-50-7P 90927-69-8P 90927-71-2P
169599-78-4P 169599-79-5P 169599-82-0P 169599-83-1P 169600-06-0P

169600-08-2P 169600-09-3P 169600-10-6P 169600-11-7P 169600-12-8P
169600-13-9P 169600-14-0P 169600-15-1P 169600-16-2P 169600-17-3P
169600-19-5P 169600-23-1P 169600-24-2P 169600-25-3P 169600-26-4P
169600-27-5P 169600-28-6P 169600-29-7P 169600-30-0P 169600-31-1P
169600-32-2P 169600-33-3P 169600-34-4P 169600-35-5P 169600-37-7P
169600-45-7P 169600-46-8P 169600-48-0P 169600-49-1P 169600-53-7P
169600-56-0P 169600-58-2P 169600-61-7P 169600-62-8P 169601-06-3P
170914-10-0P 170915-32-9P 170915-39-6P 170915-44-3P 183120-00-5P
183120-05-0P 183120-07-2P 183120-09-4P 183120-11-8P 198123-56-7P
198123-57-8P 198123-58-9P 198123-59-0P 198123-60-3P 198123-61-4P
198123-62-5P 198123-63-6P 198123-64-7P 198123-65-8P 198123-66-9P
198123-67-0P 198123-68-1P 198123-69-2P 198123-70-5P 198123-71-6P
198123-72-7P 198123-73-8P
RL: BAC (Biological activity or effector, except adverse); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(mol. modeling and prepn. of 4-hydroxy-5,6-dihydropyrones as inhibitors
of HIV protease)

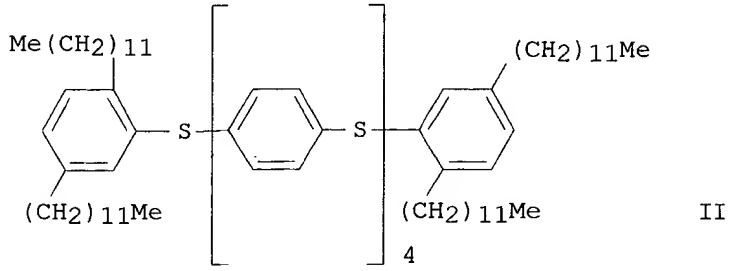
IT 70-11-1, .alpha.-Bromoacetophenone 100-61-8, N-Methylaniline, reactions 105-45-3, Methylacetoacetate 128-08-5 618-45-1, 3-Isopropylphenol 16601-02-8, Benzyl p-toluenethiosulfonate 53603-17-1 119346-10-0, 3-Benzoylpropionic acid sodium salt 169601-71-2
RL: RCT (Reactant)
(mol. modeling and prepn. of 4-hydroxy-5,6-dihydropyrones as inhibitors
of HIV protease)

IT 4151-60-4P 23033-65-0P 32119-53-2P 41479-98-5P 162174-61-0P 169601-32-5P 169601-49-4P 169601-55-2P 169601-59-6P 169601-60-9P 169601-61-0P 169601-63-2P 169601-64-3P 169601-65-4P 169601-66-5P 169601-67-6P 169601-72-3P 169601-73-4P 169601-99-4P 169602-00-0P 169602-01-1P 169602-02-2P 198123-51-2P 198123-52-3P 198123-53-4P 198123-54-5P 198123-55-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(mol. modeling and prepn. of 4-hydroxy-5,6-dihydropyrones as inhibitors
of HIV protease)

L11 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1997:534077 CAPLUS
DN 127:247878
TI Synthesis and structural characterization of alkyl-substituted oligo(thio-1,4-phenylene)s
AU Kuhn, Gerhard; Kelm, Jurgen
CS Bundesanstalt Materialforschung -Prufung, Berlin, D-12205, Germany
SO J. Prakt. Chem./Chem.- Ztg. (**1997**), 339(6), 578-581
CODEN: JPCCEM; ISSN: 0941-1216
PB Barth
DT Journal
LA English
CC 25-9 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 35
GI



I



II

AB Alkyl-substituted oligo(thio-1,4-phenylene)s I and II were prepd. starting from 1,4-didodecylbenzene.

ST thiophenylene oligomer prepn

IT **195822-63-0P** 195822-68-5P
RL: BYP (Byproduct); PREP (Preparation)
(prepn. of alkyl-substituted oligo(thiophenylene)s)

IT 106-37-6, 1,4-Dibromobenzene 108-98-5, Thiophenol, reactions 3379-81-5
5149-65-5, 1,4-Didodecylbenzene
RL: RCT (Reactant)
(prepn. of alkyl-substituted oligo(thiophenylene)s)

IT 79995-41-8P 195822-60-7P 195822-61-8P 195822-62-9P 195822-65-2P
195822-66-3P 195822-67-4P 195822-69-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of alkyl-substituted oligo(thiophenylene)s)

IT 195822-70-9P 195822-74-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of alkyl-substituted oligo(thiophenylene)s)

L11 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1997:503117 CAPLUS
DN 127:190852
TI Process for the preparation of organosilicon disulfide compounds
IN Cohen, Martin Paul; Wideman, Lawson Gibson
PA Goodyear Tire and Rubber Co., USA
SO Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW
DT Patent
LA English
IC ICM C07F007-18
CC 29-6 (Organometallic and Organometalloidal Compounds)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PI	EP 785206	A1	19970723	EP 1997-100454	19970114 <--
	R: BE, DE, FR, GB, IT				
	US 5663358	A	19970902	US 1996-589283	19960122 <--
	CA 2180888	AA	19970723	CA 1996-2180888	19960710 <--
	JP 10001487	A2	19980106	JP 1997-8522	19970121
PRAI	US 1996-589283		19960122		

OS MARPAT 127:190852

AB The present invention relates to a process for the prepn. of organo silicon disulfide compds. which are useful as adhesion promoters in sulfur-vulcanizable rubber mixts. reinforced with inorg. materials such as glass SiO2, aluminosilicates, and carbon black. The process involves reacting a mercaptoalkoxysilane with a sulfenamide compd. Thus, reaction of N-cyclohexyl-2-benzothiazolesulfenamide with 3-mercaptopropyltriethoxysilane gave a mixt. of 2-benzothiazyl-(3-triethoxy)propyl disulfide and bis(3-triethoxysilyl)propyl disulfide.

ST organo silicon disulfide prepn

IT Disulfides
RL: SPN (Synthetic preparation); PREP (Preparation)
(process for prepn. of organosilicon disulfide compds.)

IT 56706-10-6P, Bis(3-triethoxysilyl)propyl disulfide
RL: SPN (Synthetic preparation); PREP (Preparation)
(8)

IT 35112-74-4P, 3,3'-Bis(trimethoxysilylpropyl) disulfide 58392-98-6P, 2,2'-Bis(trimethoxysilylethyl) disulfide 63501-64-4P 64470-10-6P
108857-77-8P 170573-33-8P 170573-34-9P 170573-35-0P 170573-37-2P
170573-38-3P 170573-39-4P 170573-40-7P 170573-41-8P 170573-42-9P
170573-43-0P 170573-44-1P 170573-45-2P 170573-46-3P 170573-47-4P
170573-48-5P 170573-49-6P 170573-50-9P 170573-51-0P 170573-52-1P
170573-53-2P 170573-54-3P 170573-55-4P 170573-56-5P 170573-57-6P
173176-00-6P 188561-27-5P 194205-35-1P 194205-36-2P 194205-37-3P
194205-38-4P 194205-39-5P 194205-41-9P 194205-42-0P 194205-45-3P
194205-46-4P 194205-47-5P 194205-49-7P 194205-50-0P 194205-51-1P
194205-52-2P 194205-53-3P 194205-54-4P 194205-58-8P 194205-59-9P
194205-60-2P 194205-61-3P 194205-62-4P 194205-63-5P 194205-64-6P
194205-68-0P 194205-69-1P 194299-47-3P 194299-57-5P 194299-58-6P
194299-59-7P 194299-60-0P 194299-61-1P **194299-62-2P**
194299-63-3P 194299-64-4P 194299-65-5P 194299-66-6P 194299-67-7P
194299-68-8P 194299-69-9P 194299-70-2P 194299-71-3P 194299-72-4P
194299-74-6P 194299-82-6P 194299-83-7P 194299-85-9P 194299-89-3P
194299-91-7P 194299-93-9P 194299-95-1P 194299-97-3P 194299-99-5P
194300-01-1P 194300-03-3P 194300-05-5P 194300-07-7P 194300-09-9P
194300-11-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

IT 95-29-4 95-31-8, N-tert-Butyl-2-benzothiazolesulfenamide 2720-65-2 4420-74-0, 3-Mercaptopropyltrimethoxysilane 4979-32-2, N,N-Dicyclohexyl-2-benzothiazolylsulfenamide 7538-45-6, 2-Mercaptoethyltrimethoxysilane 10220-34-5, N-Isopropyl-2-benzothiazolylsulfenamide 13818-38-7 13821-71-1 14814-09-6, 3-Mercaptopropyltriethoxysilane 14857-97-7 24056-72-2 27464-39-7 31001-77-1 37592-40-8 58495-78-6, 2-Mercaptoethyltripropoxysilane 58505-63-8 94291-66-4 100080-03-3 141137-15-7 170573-62-3, 2-Mercaptopropyltriethoxysilane 170573-63-4 170573-64-5 170573-65-6 170573-66-7 170573-67-8 170573-68-9 170573-69-0 170573-70-3 170573-71-4 170573-72-5 170573-73-6 170573-74-7 170573-75-8 170573-76-9 170573-77-0 170573-78-1 170573-79-2 170573-80-5

194300-13-5, 2-Mercaptoethyltri-tert-butoxysilane 194300-24-8
194300-26-0 194300-28-2 194300-30-6 194300-32-8 194300-34-0
194300-36-2 194300-38-4 194300-40-8 194300-42-0 194300-44-2
194300-46-4
RL: RCT (Reactant)
(process for prepn. of organosilicon disulfide compds.)
IT 95-33-0, N-Cyclohexyl-2-benzothiazolesulfenamide
RL: RCT (Reactant)
(reaction with mercaptoalkylsilanes)

L11 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1997:453317 CAPLUS
DN 127:154564
TI Silver halide photographic material containing sulfonyl and/or disulfide compound as fog inhibitor
IN Okada, Hisashi; Asanuma, Naoki
PA Fuji Photo Film Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 32 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM G03C001-498
ICS G03C001-00; G03C001-35
CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09160167	A2	19970620	JP 1995-315008	19951204 <--

OS MARPAT 127:154564
AB The Ag halide photosensitive material contains .gtoreq.1 compd. RSO2LSO2CX1X2A (I; R = aliph. hydrocarbon, aryl, heterocycle; L = divalent arylene or heterocycle; X1, X2 = halo; A = H, halo, electron-attracting group). The heat development photosensitive material contains .gtoreq.1 of I and optionally .gtoreq.1 compd. R1S2SnR2 (R1, R2 = aliph. hydrocarbon, aryl, heterocycle; n = 0-4). The materials shows high sensitivity and low fog and provides improved color quality images. Thus, a heat development photosensitive film was prepd. by using a Ag halide emulsion layer contg. p-MeSO2C6H4SO2CBr3.
ST heat developable photog film fog inhibitor; sulfonyl compd photog fog inhibitor; disulfide compd photog fog inhibitor
IT Photographic fog inhibitors
(heat-developable photog. film contg. sulfonyl and/or disulfide compd. as fog inhibitor)
IT Photographic films
(heat-developable photog. film contg. sulfonyl and/or disulfide compd. as fog inhibitors)
IT 152171-23-8P, [4-(Phenylthio)phenylthio] acetic acid
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation)
(bromination of; prepn. of sulfonyl compd. photog. fog inhibitor)
IT 187744-20-3 187744-21-4 187744-26-9 193342-81-3 193342-82-4
193342-83-5 193342-84-6 193342-85-7 193342-86-8
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
(heat-developable photog. film contg. sulfonyl and/or disulfide compd.

as fog inhibitor)

IT 2527-63-1P 3982-42-1P 4104-52-3P 4490-97-5P 4508-09-2P
14897-91-7P 52017-43-3P 69200-87-9P 152171-22-7P
187744-16-7P 187744-18-9P 187744-22-5P 187744-23-6P
187744-24-7P 187744-25-8P 187744-29-2P 187744-31-6P 187744-32-7P
187744-33-8P 193342-87-9P 193342-88-0P 193342-89-1P 193342-90-4P
RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
(heat-developable photog. film contg. sulfonyl and/or disulfide compd. as fog inhibitor)

IT 31183-89-8P, (2,2'-Diamino-5,5'-dichlorodiphenyl)disulfide 31183-91-2P, (2,2'-Diamino-5,5'-dimethyldiphenyl)disulfide
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation)
(prepn. of disulfide compd. photog. fog inhibitor)

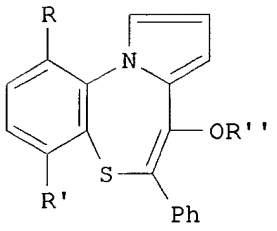
IT 62-53-3, Benzenamine, reactions 75-36-5, Acetyl chloride 85-46-1, 1-Naphthalenesulfonyl chloride 86-84-0, 1-Naphthalene isocyanate 93-11-8, 2-Naphthalenesulfonyl chloride 95-24-9, 2-Amino-6-chlorobenzothiazole 98-09-9, Benzenesulfonyl chloride 98-59-9, p-Toluenesulfonyl chloride 98-68-0, p-Methoxybenzenesulfonyl chloride 98-88-4, Benzoyl chloride 103-71-9, Phenyl isocyanate, reactions 119-80-2 356-42-3, Pentafluoropropionyl anhydride 722-27-0 773-64-8,
2-Mesitylenesulfonyl chloride 1141-88-4 2243-83-6,
2-Naphthalenecarbonyl chloride 2251-50-5, Pentafluorobenzoyl chloride 2524-64-3 2536-91-6, 2-Amino-6-methylbenzothiazole 15945-07-0,
2,4,5-Trichlorobenzenesulfonyl chloride
RL: RCT (Reactant)
(prepn. of disulfide compd. photog. fog inhibitor)

IT 3926-62-3, Sodium monochloroacetate 52872-99-8, 4-Phenylthiobenzenethiol
RL: RCT (Reactant)
(prepn. of sulfonyl compd. photog. fog inhibitor)

L11 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1997:355091 CAPLUS
DN 126:349862
TI Bis[2-(triphenylsilyl)phenyl] disulfide
AU Miller, John R.; Lu, Canzhong; Zheng, Yifan
CS Dep. Biological Chem. Sci., Univ. Essex, Colchesster, CO4 3SQ, UK
SO Acta Crystallogr., Sect. C: Cryst. Struct. Commun. (**1997**), C53(5), 654-655
CODEN: ACSCEE; ISSN: 0108-2701
PB Munksgaard
DT Journal
LA English
CC 75-8 (Crystallography and Liquid Crystals)
Section cross-reference(s): 29
AB The title compd., C48H38S2Si2, was obtained by the oxidn. of the corresponding thiol in the presence of Cu(I) chloride; the mol. structure is reported. Crystallog. data are given.
ST mol structure phenylsilylphenyl sulfide
IT Crystal structure
Molecular structure
(of bis[(triphenylsilyl)phenyl] disulfide)
IT 117526-60-0, 2-(Triphenylsilyl)benzenethiol
RL: RCT (Reactant)
(oxidn. in presence of cuprous chloride of)
IT **189943-50-8P**

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and crystal structure of)

L11 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1997:275793 CAPLUS
DN 126:343549
TI New pyrrolobenzothiazepine derivatives as molecular probes of the "peripheral-type" benzodiazepine receptor (PBR) binding site
AU Campiani, G.; Nacci, V.; Fiorini, I.; De Filippis, M. P.; Garofalo, A.; Ciani, S. M.; Greco, G.; Novellino, E.; Manzoni, C.; Mennini, T.
CS Dipartimento Farmaco Chimico Tecnologico, Universita di Siena, Siena, 53100, Italy
SO Eur. J. Med. Chem. (**1997**), 32(3), 241-252
CODEN: EJMCA5; ISSN: 0223-5234
PB Elsevier
DT Journal
LA English
CC 28-22 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1
GI



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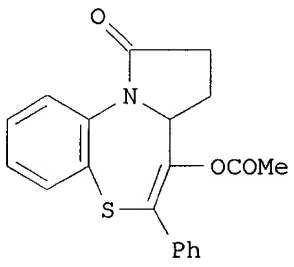
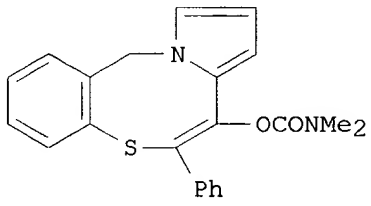


II



III

AB A no. of new pyrrolobenzothiazepine derivs. I [R = H, Me, Cl; R1 = H, Cl; R2 = CONEt2, CO(CH2)5Me, COMe, etc.] and II and a pyrrolobenzothiazocine deriv. III have been synthesized and evaluated for their affinity towards the "peripheral-type" benzodiazepine receptor (PBR). The new compds. were tested in rat cortex, a tissue expressing a high d. of mitochondrial PBR. Some of the pyrrolobenzothiazepines exhibited IC50 values in the low nanomolar range as measured by the displacement of [3H]PK 11195 binding. I (R = H, R1 = Cl, R2 = CONEt2) was found to be the most potent ligand for this receptor in the pyrrolobenzothiazepine subgroup with an IC50 practically identical to that detd. for PK 11195. Structure-affinity relationships (SARs) have been developed to elucidate the topol. of the

PBR binding site.

ST pyrrolobenzothiazepine prepn benzodiazepine receptor binding; benzothiazepine pyrrolo prepn benzodiazepine receptor binding; structure activity pyrrolobenzothiazepine benzodiazepine receptor binding; pyrrolobenzothiazocine prepn benzodiazepine receptor binding

IT Benzodiazepine receptors
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(prepn. and benzodiazepine receptor binding activity of pyrrolobenzothiazepines)

IT 156274-66-7P 189883-72-5P 189883-73-6P 189883-74-7P 189883-75-8P 189883-76-9P 189883-77-0P 189883-78-1P 189883-79-2P 189883-80-5P 189883-81-6P 189883-82-7P 189883-87-2P
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and benzodiazepine receptor binding activity of pyrrolobenzothiazepines)

IT 71-43-2, Benzene, reactions 79-44-7, Dimethylcarbamoyl chloride 88-10-8, Diethylcarbamoyl chloride 105-36-2, Ethyl bromoacetate 111-64-8, Octanoyl chloride 696-59-3, 2,5-Dimethoxytetrahydrofuran 1477-42-5 2528-61-2, Heptanoyl chloride 2719-27-9, Cyclohexanecarbonyl chloride 4870-65-9, .alpha.-Bromophenylacetic acid 15159-40-7, 4-Morpholinecarbonyl chloride 19009-39-3, Diisopropylcarbamoyl chloride 19952-47-7 85725-90-2 99141-18-1 155908-94-4 189883-83-8
RL: RCT (Reactant)
(prepn. and benzodiazepine receptor binding activity of pyrrolobenzothiazepines)

IT 156274-73-6P 156274-74-7P 156274-75-8P 156274-76-9P 177578-93-7P 189883-67-8P **189883-68-9P** 189883-69-0P 189883-70-3P 189883-71-4P 189883-84-9P 189883-85-0P 189883-86-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and benzodiazepine receptor binding activity of pyrrolobenzothiazepines)

L11 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 1997:228839 CAPLUS

DN 126:311761

TI A new class of anti-HIV-1 agents targeted toward the nucleocapsid protein NCp7: the 2,2'-dithiobisbenzamides

AU Domagala, John M.; Bader, John P.; Gogliotti, Rocco D.; Sanchez, Joseph P.; Stier, Michael A.; Song, Yuntao; Prasad, J.V.N. Vara; Tummino, Peter J.; Scholten, Jeffrey; et al.

CS Division of Warner-Lambert Company, Departments of Chemistry and Therapeutics, Parke-Davis Pharmaceutical Research, Ann Arbor, MI, 48105, USA

SO Bioorg. Med. Chem. (**1997**), 5(3), 569-579
CODEN: BMECEP; ISSN: 0968-0896

PB Elsevier

DT Journal

LA English

CC 1-5 (Pharmacology)
Section cross-reference(s): 25

AB As part of the National Cancer Institute's Drug Screening Program, a new class of antiretrovirals active against the human immunodeficiency virus HIV-1 has been identified, and the HIV-1 nucleocapsid protein NCp7 was proposed as the target of antiviral action. The 2,2'-dithiobis-[4'-(sulfamoyl)benzanilide] and the 2,2'-dithiobis(5-acetylamino)benzamide represented the prototypic lead structures. A wide variety of

2,2'-dithiobisbenzamides were prepd. and tested for anti-HIV-1 activity, cytotoxicity, and their ability to extrude zinc from the zinc fingers for NCp7. The structure-activity relationships demonstrated that the ability to extrude zinc from NCp7 resided in the 2,2'-dithiobisbenzamide core structure. The 3,3' and the 4,4' isomers were inactive. While many analogs based upon the core structure retained the zinc extrusion activity, the best overall anti-HIV-1 activity was only found in a narrow set of derivs. possessing carboxylic acid, carboxamide, or phenylsulfonamide functional groups. These functional groups were more important for reducing cytotoxicity than improving antiviral potency or activity vs. NCp7. All of the compds. with antiviral activity also extruded zinc from NCp7. From this study several classes of low .mu.M anti-HIV agents with simple chem. structures were identified as possible chemotherapeutic agents for the treatment of AIDS.

ST nucleocapsid protein NCp7 HIV1 antiviral dithiobisbenzamide; dithiobisbenzamide prepn HIV1 virus inhibition structure; AIDS treatment dithiobisbenzamide nucleocapsid protein NCp7

IT Nucleocapsid proteins
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(NC(p7) (nucleocapsid, p7); prepn. of dithiobisbenzamides as new class of anti-HIV-1 agents targeted toward nucleocapsid protein NCp7 in relation to structure and extrusion of zinc from zinc finger)

IT Anti-AIDS drugs
Antiviral agents
Human immunodeficiency virus 1
(prepn. of dithiobisbenzamides as new class of anti-HIV-1 agents targeted toward nucleocapsid protein NCp7 in relation to structure and extrusion of zinc from zinc finger)

IT 19602-82-5P, 2,2'-Dithiobisbenzoyl chloride 92906-21-3P 177785-53-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(intermediate; prepn. of dithiobisbenzamides as new class of anti-HIV-1
agents targeted toward nucleocapsid protein NCp7 in relation to structure and extrusion of zinc from zinc finger)

IT 2527-64-2P
RL: BAC (Biological activity or effector, except adverse); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of dithiobisbenzamides as new class of anti-HIV-1 agents targeted toward nucleocapsid protein NCp7 in relation to structure and extrusion of zinc from zinc finger)

IT 119-80-2P 1160-68-5P 2527-57-3P 2527-58-4P 2527-59-5P
2527-60-8P
2527-62-0P 2527-63-1P 2634-30-2P 2634-31-3P 2752-93-4P
2752-94-5P 5459-63-2P 7765-77-7P 7765-79-9P 7765-80-2P
17407-52-2P 19602-83-6P 19602-85-8P 32276-24-7P 37010-19-8P
49755-40-0P 49755-44-4P 49755-48-8P 63956-06-9P 63956-08-1P
78010-07-8P 89011-97-2P 90520-54-0P 98051-90-2P 107920-19-4P
130752-42-0P 143467-53-2P 171744-39-1P 171744-40-4P 171744-41-5P
171744-43-7P 173590-72-2P 173590-73-3P 177785-55-6P 177785-58-9P
177785-92-1P 177786-17-3P 177786-20-8P 177786-24-2P 177786-28-6P
177786-33-3P 177786-38-8P 177786-41-3P 177786-44-6P 182149-25-3P
186130-50-7P 186130-65-4P 187872-00-0P 189367-79-1P 189367-80-4P
189367-81-5P 189367-82-6P 189367-83-7P 189367-84-8P 189367-85-9P
189367-86-0P 189367-87-1P **189367-88-2P** 189367-89-3P
189367-90-6P 189367-91-7P 189367-92-8P 189367-93-9P 189367-94-0P
189367-98-4P

RL: BAC (Biological activity or effector, except adverse); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of dithiobisbenzamides as new class of anti-HIV-1 agents targeted toward nucleocapsid protein NCp7 in relation to structure and extrusion of zinc from zinc finger)

IT 7440-66-6, Zinc, biological studies
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(prepn. of dithiobisbenzamides as new class of anti-HIV-1 agents targeted toward nucleocapsid protein NCp7 in relation to structure and extrusion of zinc from zinc finger)

IT 63-74-1 75-64-9, tert-Butylamine, reactions 108-44-1, 3-Methylaniline, reactions 443-79-8, (.+-.)-Isoleucine 769-92-6, 4-tert-Butylaniline 1155-51-7, 4,4'-Dithiobisbenzoic acid 1227-49-2 7298-84-2, L-Leucyl-L-alanine 16588-15-1, 2-Chloro-5-nitrobenzamide 16874-08-1, Isoleucine tert-butyl ester
RL: RCT (Reactant)
(reactant; prepn. of dithiobisbenzamides as new class of anti-HIV-1 agents targeted toward nucleocapsid protein NCp7 in relation to structure and extrusion of zinc from zinc finger)

L11 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1997:204498 CAPLUS
DN 126:205418
TI Thermal processing type silver halide photographic material containing a disulfide derivative
IN Okada, Hisashi; Totani, Ichizo; Kojima, Tetsuo
PA Fuji Photo Film Co Ltd, Japan
SO Jpn. Kokai Tokkyo Koho, 38 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM G03C001-498
ICS G03C001-498
CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 09005926	A2	19970110	JP 1996-85994	19960315 <--
PRAI JP 1995-115274		19950418		

AB Claimed photog. material contains a disulfide compd. R1SSR2 (I; R1 = aryl, pyridyl, quinolyl; R2 = aryl, pyridyl, quinolyl having substituent selected from aliph. hydrocarbon, aryl, amino, alkoxy, aryloxy, acylamino, carbamoyl, sulfonylamino, phosphonamido, sulfamoyl, alkylthio, arylthio, thiocarbonyl, sulfonyl, sulfinyl, ureide, thioureide, thioamido, OH, mercapto, sulfo, phosphono, hydroxamic acid residue, heterocyclic group). Also claimed is the photog. material contg., in addn. to the compd. I, a polyhalomethane QYnC(X1)(X2)A (II; Q = aryl, heterocyclic group; X1, X2 = halo; Y = C(LO), SO2, SO; A = H, halo, electron-attracting group; n = 0, 1). It has low fog, and provides an image with improved neutral color tone, and also has the stability of both before and after processing. Suitable compd. II are bis(2-benzoamidophenyl)disulfide, bis[4-(phenylaminocarbonyl)phenyl]disulfide, bis[2-(phenylsulfoamino)phenyl]disulfide, etc., and suitable compd. II are

benzothiazol-2-yl-sulfonyl-dibromomethane, 2-(tribromomethylsulfonyl)-5-methyl-thiadiazole, etc. The additives are incorporated in the thermal processed type photog. material comprising Ag behenate, preformed Ag(Br, I) crystals, phthalazone, poly(vinyl butyral) binder, etc.

ST thermal processing type photog material; disulfide deriv additive photog material; aryl disulfide additive photog material; pyridyl disulfide additive photog material; polyhalomethane additive photog material

IT Photographic films
Photographic fog inhibitors
Photographic stabilizers
(thermal processing type silver halide photog. material contg. disulfide deriv. to improve color tone and reduce fog)

IT 31183-89-8P, (2,2'-Diamino-5,5'-dichlorodiphenyl)disulfide
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation)
(disulfide compds. from; for thermal processing type silver halide photog. material)

IT 62-53-3, Aniline, reactions 75-36-5, Acetylchloride 85-46-1, 1-Naphthalenesulfonyl chloride 86-84-0, 1-Naphthylisocyanate 93-11-8, 2-Naphthalenesulfonyl chloride 95-24-9, 2-Amino-6-chlorobenzothiazole 98-09-9, Benzenesulfonyl chloride 98-59-9, p-Toluenesulfonyl chloride 98-68-0, p-Methoxybenzenesulfonyl chloride 98-88-4, Benzoyl chloride 103-71-9, Phenylisocyanate, reactions 119-80-2 121-44-8, reactions 356-42-3, Pentafluoropropionic anhydride 722-27-0, 4,4'-Dithiodianiline 773-64-8, 2-Mesitylenesulfonyl chloride 1141-88-4, 2,2'-Dithiodianiline 2243-83-6, 2-Naphthalenecarboxylic acid chloride 2251-50-5, Pentafluorobenzoyl chloride 2524-64-3, Diphenylchlorophosphate 2536-91-6, 2-Amino-6-methylbenzothiazole 7719-09-7, Thionyl chloride 15945-07-0, 2,4,5-Trichlorobenzenesulfonyl chloride
RL: RCT (Reactant)
(disulfide compds. from; for thermal processing type silver halide photog. material)

IT 31274-42-7
RL: DEV (Device component use); USES (Uses)
(for thermal processing type silver halide photog. material)

IT 160029-59-4
RL: DEV (Device component use); USES (Uses)
(thermal processing type silver halide photog. material contg. disulfide deriv. and halomethane deriv.)

IT 135-57-9 115484-15-6 **187744-17-8** 187744-19-0 187744-20-3 187744-21-4 187744-26-9 187744-28-1
RL: DEV (Device component use); USES (Uses)
(thermal processing type silver halide photog. material contg. disulfide deriv. to improve color tone and reduce fog)

IT 3982-42-1P 4104-52-3P 4490-97-5P 4508-09-2P 14897-91-7P 16766-10-2P 52017-43-3P 69200-87-9P **187744-16-7P** 187744-18-9P 187744-22-5P 187744-23-6P 187744-24-7P 187744-25-8P 187744-27-0P 187744-29-2P 187744-30-5P 187744-31-6P 187744-32-7P 187744-33-8P
RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
(thermal processing type silver halide photog. material contg. disulfide deriv. to improve color tone and reduce fog)

L11 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1997:183782 CAPLUS
DN 126:287661
TI Derivatives of 2-mercaptobenzenesulfonamide. XIX. Syntheses, anticancer and anti-HIV activities of some 2-(4-chloro-2-

mercaptobenzenesulfonylimino)perhydropyrimidines
AU Pomarnacka, Elzbieta
CS Department of Chemical Drug Technology, Medical University of Gdansk, Gdansk, 80-416, Pol.
SO Acta Pol. Pharm. (**1996**), 53(5), 373-378
CODEN: APPHAX; ISSN: 0001-6837
PB Polish Pharmaceutical Society
DT Journal
LA English
CC 1-6 (Pharmacology)
Section cross-reference(s): 28
AB Syntheses of some
2-(4-chloro-2-mercaptobenzenesulfonylimino)perhydropyrim
idine derivs. are described. The moderate anticancer and weak anti-HIV activities were obsd. in vitro for some of the compds.
ST mercaptobenzenesulfonamide deriv prepn anticancer antiviral HIV; pyrimidine deriv prepn anticancer antiviral HIV
IT Antitumor agents
Antiviral agents
Human immunodeficiency virus 1
(prepn. and anticancer and anti-HIV activities of 2-(4-chloro-2-mercaptobenzenesulfonylimino)perhydropyrimidines)
IT 188717-79-5P 188717-81-9P 188717-83-1P
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and anticancer and anti-HIV activities of 2-(4-chloro-2-mercaptobenzenesulfonylimino)perhydropyrimidines)
IT 95792-63-5P 156775-50-7P 189126-95-2P 189126-96-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and anticancer and anti-HIV activities of 2-(4-chloro-2-mercaptobenzenesulfonylimino)perhydropyrimidines)
IT 189126-97-4P 189126-98-5P 189126-99-6P 189127-01-3P 189127-02-4P 189127-03-5P **189127-04-6P** 189127-05-7P 189127-06-8P 189127-07-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and anticancer and anti-HIV activities of 2-(4-chloro-2-mercaptobenzenesulfonylimino)perhydropyrimidines)

L11 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1997:10653 CAPLUS
DN 126:117777
TI The "Thio-Arbuzov" reaction of sulfenate esters with sulfenyl chlorides: fate of the thiosulfinate product
AU Brown, Charles; Evans, Graham R.
CS Chem. Lab., Univ. Kent Canterbury, Canterbury, CT2 7NH, UK
SO Tetrahedron Lett. (**1996**), 37(50), 9101-9104
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier
DT Journal
LA English
CC 25-22 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
AB The further reaction of thiosulfinate esters (putative products of the thio-Arbuzov reaction of sulfenate esters with sulfenyl chlorides) with sulfenyl chlorides and sulfenate esters was studied. In the former case, sulfinyl chlorides and disulfides were formed. In the latter case sulfinate esters and disulfides were obtained. For example, the reaction of p-tolyl p-toluenethiosulfinate [i.e., 4-methylbenzenesulfinothioic acid

S-(4-methylphenyl) ester] with benzenesulfenyl chloride gave 4-methylbenzenesulfinyl chloride and a mixt. of disulfides, i.e., di-Ph disulfide, bis(4-methylphenyl)disulfide and (4-methylphenyl) Ph disulfide.

ST thio Arbuzov sulfenate sulfenyl chloride; benzenesulfenate thio Arbuzov reaction; benzenesulfinothioate thio Arbuzov reaction

IT Arbuzov reaction
(thio; thio-Arbuzov reaction between sulfenyl chlorides and benzenesulfinothioates)

IT 931-59-9, Benzenesulfenyl chloride 6481-73-8, p-Tolyl p-toluenethiosulfinate 67764-21-0, 4-Methylbenzenesulfenic acid methyl ester 77329-76-1 133773-41-8 186098-93-1 **186098-94-2** 186098-96-4
RL: RCT (Reactant)
(thio-Arbuzov reaction between sulfenyl chlorides and benzenesulfinothioates)

IT 103-19-5P, Bis(4-methylphenyl)disulfide 672-78-6P, Methyl p-toluenesulfinate 882-33-7P, Diphenyldisulfide 2943-20-6P, tert-Butyl phenyl disulfide 4032-80-8P, Bis(2-methylphenyl)disulfide 10439-23-3P, 4-Methylbenzenesulfinyl chloride 16066-33-4P 20333-41-9P, Bis(3-methylphenyl)disulfide 29627-34-7P, 4-Methylphenyl phenyl disulfide 57266-34-9P, Methyl 4-methylphenyl dislufide 63369-67-5P, 2-Methylbenzenesulfinyl chloride 83878-24-4P, 2-Methylphenyl phenyl disulfide 98147-48-9P 186098-95-3P **186098-97-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(thio-Arbuzov reaction between sulfenyl chlorides and benzenesulfinothioates)

=> end
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	113.17	211.27

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-13.01	-13.01

STN INTERNATIONAL LOGOFF AT 10:57:20 ON 11 JAN 2002

L2 ANSWER 1 OF 6 MEDLINE
AN 2000097090 MEDLINE
DN 20097090
TI A small-molecule catalyst of protein folding in vitro and in vivo.
AU Woycechowsky K J; Wittrup K D; Raines R T
CS Department of Biochemistry, University of Wisconsin-Madison 53706, USA.
NC GM08505 (NIGMS)
SO CHEMISTRY AND BIOLOGY, (1999 Dec) 6 (12) 871-9.
Journal code: CNA. ISSN: 1074-5521.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200004
EW 20000402
AB BACKGROUND: The formation of native disulfide bonds between cysteine residues often limits the rate and yield of protein folding. The enzyme protein disulfide isomerase (PDI) catalyzes the interchange of disulfide bonds in substrate proteins. The two -Cys-Gly-His-Cys- active sites of PDI provide a thiol that has a low **pKa** value and a **disulfide** bond of high reduction potential (Eo'). RESULTS: A synthetic small-molecule dithiol, (+/-)-trans-1,2-bis(2-mercaptoacetamido)cyclohexane (BMC), has a pKa value of 8.3 and an Eo' value of -0.24 V. These values are similar to those of the PDI active sites. BMC catalyzes the activation of scrambled ribonuclease A, an inactive enzyme with non-native disulfide bonds, and doubles the yield of active enzyme. A monothiol analog of BMC, N-methylmercaptoacetamide, is a less efficient catalyst than BMC. BMC in the growth medium of Saccharomyces cerevisiae cells increases by > threefold the heterologous secretion of Schizosaccharomyces pombe acid phosphatase, which has eight disulfide bonds. This effect is similar to that from the overproduction of PDI in the S. cerevisiae cells, indicating that BMC, like PDI, can catalyze protein folding in vivo. CONCLUSIONS: A small-molecule dithiol with a low thiol **pKa** value and high **disulfide** Eo' value can mimic PDI by catalyzing the formation of native disulfide bonds in proteins, both in vitro and in vivo.